

Laboratory **Neogen Food & Animal Security (India) Pvt. Ltd., Uchikkal Lane,  
Poonithura P.O., Cochin, Kerala**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-6489 (in lieu of T-3703 & T-3704)**

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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**BIOLOGICAL TESTING**

I.	<b>FOOD AND AGRICULTURAL PRODUCTS</b>			
1.	<b>Bakery &amp; Confectionary Products</b>	Escherichia coli	IS 5887 (Part 1) / BAM 8 <sup>th</sup> Edition, Chapter 4	≥1 CFU/ml , ≥10 CFU/g, (<0.3 MPN to 110 MPN) /g/ml, (<3 MPN to 1100 MPN) /g/ml, Qualitative (Present/Absent)/0.1g/ml
			AOAC 20 <sup>th</sup> Edition-991.14 (Petrifilm method)	≥1 CFU / ml, ≥10 CFU /g
		Aerobic plate count	BAM 8 <sup>th</sup> Edition, Chapter 3 / IS 5402/AOAC20 <sup>th</sup> Edn-990.12 Petrifilm method)	≥1 CFU / ml, ≥10 CFU /g
		Salmonella	BAM 8 <sup>th</sup> Edition, Chapter 5 / IS 5887 (Part 3)	Qualitative (Present/Absent) /25g/ml
		Staphylococcus aureus	BAM 8 <sup>th</sup> Edition, Chapter 12 / IS 5887 (Part 8/ Sec 1)	≥1 CFU / ml, ≥10 CFU /g, Qualitative (Present/Absent)/0.1g/ml
		Clostridium perfringens	BAM 8 <sup>th</sup> Edition, Chapter 16/ IS 5887 (Part 4)	≥1 CFU / ml, ≥10 CFU /g, Qualitative (Present/Absent)/0.1g/ml

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		Bacillus cereus	BAM 8 <sup>th</sup> Edition, Chapter 14	≥1 CFU / ml, ≥10 CFU /g, ≥100 CFU/ml /g, Qualitative (Present/Absent)/0.1g/ml
		Enterobacteriaceae	IS 7402	≥10 CFU /g, ≥1 CFU / ml
		Yeast & Mold	BAM 8 <sup>th</sup> Edition, Chapter-18 /IS 5403	≥1 CFU / ml , ≥10 CFU /g , ≥100 CFU/g
		Coliforms	IS 5401 (Part 1 & 2) / BAM 8 <sup>th</sup> Edition, Chapter 4	≥1 CFU / ml , ≥10 CFU /g, (<0.3 MPN to 110 MPN) /g/ml, (<3 MPN to 1100 MPN) /g/ml, Qualitative (Present/Absent)/0.1g/ml
			AOAC 20 <sup>th</sup> Edition-991.14 (Petri-film method)	≥1 CFU / ml, ≥10 CFU /g
		Vibrio parahaemolyticus	BAM 8 <sup>th</sup> Edition, Chapter 9/ IS 5887 (Part 5)	(<3 MPN to 1100 MPN) /g/ml, Qualitative (Present /Absent)/25g/ml
		Shigella	BAM 8 <sup>th</sup> Edition, Chapter 6	Qualitative (Present /Absent)/25g/ml
		Listeria monocytogenes	BAM 8 <sup>th</sup> Edition, Chapter 10	Qualitative (Present /Absent)/25g/ml
		Thermotolerant/ Fecal Coliforms	BAM 8 <sup>th</sup> Edition, Chapter 4	(<3 MPN to 1100 MPN) /g/ml

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<b>2.</b>	<b>Beverages</b>			
<b>a.</b>	<b>Non Alcoholic Beverages, Non alcoholic carbonated beverages, ready to drink beverages, carbonated beverages</b>	Escherichia coli	IS 5887 (Part 1) / BAM 8th Edition, Chapter 4	≥1 CFU / ml, ≥10 CFU /g, (<0.3 MPN to 110 MPN) /g/ml
				(<3 MPN to 1100 MPN) /g/ml, Qualitative (Present/Absent)/0.1g/ml
			AOAC 20 <sup>th</sup> Edition-991.14 (Petrifilm method)	≥1 CFU / ml, ≥10 CFU /g
		Aerobic plate count	BAM 8 <sup>th</sup> Edition, Chapter 3/ IS 5402 /AOAC 20 <sup>th</sup> Edition – 990.12 (Petrifilm method)	≥1 CFU /ml, ≥10 CFU /g
		Salmonella	BAM 8 <sup>th</sup> Edition, Chapter 5 / IS 5887 (Part 3)	Qualitative (Present/Absent) /25 g or 25 ml
		Staphylococcus aureus	BAM 8 <sup>th</sup> Edition,Chapter 12 / IS 5887 (Part 8/ Sec 1)	≥1 CFU / ml, ≥10 CFU /g, Qualitative (Present/Absent)/0.1g/ml
		Clostridium perfringens	BAM 8 <sup>th</sup> Edition,Chapter 16/ IS 5887 (Part 4)	≥1 CFU / ml, ≥10 CFU /g, Qualitative (Present/Absent)/0.1 g/ml
		Bacillus cereus	BAM 8 <sup>th</sup> Edition,Chapter 14	≥1 CFU / ml, ≥10 CFU /g , ≥100 CFU/ml /g, Qualitative (Present/Absent)/0.1g/ml

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		Enterobacteriaceae	IS 7402	≥10 CFU /g, ≥1 CFU / ml
		Yeast & Mold	BAM 8 <sup>th</sup> Edition, Chapter 18/ IS 5403	≥1 CFU / ml , ≥10 CFU /g, ≥100 CFU/g
		Coliforms	IS 5401 (Part 1 & 2) /	≥1 CFU / ml
			BAM 8 <sup>th</sup> Edition, Chapter 4	≥10 CFU /g, (<0.3 MPN to 110 MPN) /g/ml, (<3 MPN to 1100 MPN) /g/ml, Qualitative (Present/Absent)/0.1g/ml
			AOAC 20 <sup>th</sup> Edition-991.14 (Petrifilm method)	≥1 CFU/ ml, ≥10 CFU/g
		Vibrio parahaemolyticus	BAM 8 <sup>th</sup> Edition, Chapter 9/ IS 5887 (Part 5)	(<3 MPN to 1100 MPN) /g/ml, Qualitative (Present /Absent)/25g/ml
		Shigella	BAM 8 <sup>th</sup> Edition, Chapter 6	Qualitative (Present /Absent)/25g/ml
		Listeria monocytogenes	BAM 8 <sup>th</sup> Edition, Chapter 10	Qualitative (Present /Absent)/25g/ml
		Thermotolerant/ Fecal Coliforms	BAM 8 <sup>th</sup> Edition, Chapter 4	(<3 MPN to 1100 MPN) /g/ml
<b>b.</b>	<b>Alcoholic Beverages</b>	Coliforms	IS 3752	≥1 CFU / ml, ≥10 CFU /g, (<0.3 MPN to 110 MPN) /g/ml

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3.	<b>Canned &amp; Processed Foods</b>	Escherichia coli	IS 5887 (Part 1) / BAM 8 <sup>th</sup> Edition, Chapter 4	≥1 CFU / ml, ≥10 CFU /g, (<0.3 MPN to 110 MPN) /g/ml, (<3 MPN to 1100 MPN) /g/ml, Qualitative (Present/Absent)/0.1g/ml
			AOAC 20 <sup>th</sup> Edition-991.14 (Petrifilm method)	≥1 CFU / ml, ≥10 CFU /g
		Aerobic plate count	BAM 8 <sup>th</sup> Edition, Chapter 3/ IS 5402 / AOAC 20 <sup>th</sup> Edition – 990.12 (Petrifilm method)	≥1 CFU / ml, ≥10 CFU /g
		Salmonella	BAM 8 <sup>th</sup> Edition, Chapter 5 / IS 5887 (Part 3)	Qualitative (Present/Absent) /25 g or 25 ml
		Staphylococcus aureus	BAM 8 <sup>th</sup> Edition, Chapter 12 / IS 5887 (Part 8/ Sec 1)	≥1 CFU / ml, ≥10 CFU /g, Qualitative (Present/Absent)/0.1g/ml
		Clostridium perfringens	BAM 8 <sup>th</sup> Edition, Chapter 16/ IS 5887 (Part 4)	≥1 CFU / ml, ≥10 CFU /g, Qualitative (Present/Absent)/0.1g/ml
		Bacillus cereus	BAM 8 <sup>th</sup> Edition, Chapter 14	≥1 CFU / ml, ≥10 CFU /g, ≥100 CFU/ml /g, Qualitative (Present/Absent)/0.1g/ml

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		Enterobacteriaceae	IS 7402	≥10 CFU /g, ≥1 CFU / ml
		Yeast & Mold	BAM 8 <sup>th</sup> Edition, Chapter 18/ IS 5403	≥1 CFU / ml , ≥10 CFU /g, ≥100 CFU/g
		Coliforms	IS 5401 (Part 1 & 2) / BAM 8 <sup>th</sup> Edition, Chapter 4	≥1 CFU / ml, ≥10 CFU /g, (<0.3 MPN to 110 MPN) /g/ml, (<3 MPN to 1100 MPN) /g/ml, Qualitative (Present/Absent)/0.1g/ml
			AOAC 20 <sup>th</sup> Edition-991.14 (Petrifilm method)	≥1 CFU / ml, ≥10 CFU /g
		Vibrio parahaemolyticus	BAM 8 <sup>th</sup> Edition, Chapter 9/ IS 5887 (Part 5)	(<3 MPN to 1100 MPN) /g/ml, Qualitative (Present /Absent)/25g/ml
		Vibrio cholerae	BAM 8 <sup>th</sup> Edition, Chapter 9/ IS 5887 (Part 5)	Qualitative (Present /Absent)/25g/ml
		Shigella	BAM 8 <sup>th</sup> Edition, Chapter 6	Qualitative (Present /Absent)/25g/ml
		Listeria monocytogenes	BAM 8 <sup>th</sup> Edition, Chapter 10	Qualitative (Present /Absent)/25g/ml
		Thermotolerant/ Fecal Coliforms	BAM 8 <sup>th</sup> Edition, Chapter 4	≥3 MPN to ≤1100 MPN/g/ml
<b>4.</b>	<b>Coffee and Cocoa Products</b>	Aerobic plate count	BAM 8 <sup>th</sup> Edition, Chapter 3/ IS 5402/AOAC 20 <sup>th</sup> Edition	≥10 CFU /g

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			- 990.12 (Petrifilm method)	
		Yeast & Mold	BAM 8 <sup>th</sup> Edition, Chapter 18 / IS 5403	≥10 CFU /g, ≥100 CFU/g
		Coliforms	IS 5401 (Part 1 & 2) / BAM 8 <sup>th</sup> Edition, Chapter 4	≥10 CFU /g, (<0.3 MPN to 110 MPN) /g/ml, (<3 MPN to 1100 MPN) /g/ml, Qualitative (Present/Absent)/0.1g/ml
		Escherichia coli	IS 5887 (Part 1) / BAM 8 <sup>th</sup> Edition, Chapter 4	≥10 CFU /g (<0.3 MPN to 110 MPN) /g/ml, (<3 MPN to 1100 MPN) /g/ml, Qualitative (Present/Absent)/0.1g/ml
		Salmonella	BAM 8 <sup>th</sup> Edition, Chapter 5 / IS 5887 (Part 3)	Qualitative (Present/Absent) /25 g or 25 ml
		Staphylococcus aureus	BAM 8 <sup>th</sup> Edition, Chapter 12 / IS 5887 (Part 8/ Sec 1)	≥10 CFU /g, Qualitative (Present/Absent)/0.1g/ml
		Enterobacteriaceae	IS 7402	≥10 CFU /g
		Thermotolerant/ Fecal Coliforms	BAM 8 <sup>th</sup> Edition, Chapter 4	(<3 MPN to 1100 MPN) /g/ml

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5.	Edible Oils & Fats	Escherichia coli	IS 5887 (Part 1) / BAM 8 <sup>th</sup> Edition, Chapter 4	≥1 CFU / ml, ≥10 CFU /g, (<0.3 MPN to 110 MPN) /g/ml, (<3 MPN to 1100 MPN) /g/ml, Qualitative (Present/Absent)/0.1g/ml
			AOAC 20 <sup>th</sup> Edition-991.14 (Petrifilm method)	≥1 CFU / ml, ≥10 CFU /g
		Aerobic plate count	BAM 8 <sup>th</sup> Edition, Chapter 3/ IS 5402 / AOAC 20 <sup>th</sup> Edition – 990.12 (Petrifilm method)	≥1 CFU / ml, ≥10 CFU /g
		Salmonella	BAM 8 <sup>th</sup> Edition, Chapter 5 / IS 5887 (Part 3)	Qualitative (Present/Absent) /25 g or 25 ml
		Staphylococcus aureus	BAM 8 <sup>th</sup> Edition, Chapter 12 / IS 5887 (Part 8/ Sec1)	≥1 CFU / ml, ≥10 CFU /g, Qualitative (Present/Absent)/0.1g/ml
		Clostridium perfringens	BAM 8 <sup>th</sup> Edition, Chapter 16/ IS 5887 (Part 4)	≥1 CFU / ml, ≥10 CFU /g, Qualitative (Present/Absent)/0.1g/ml
		Bacillus cereus	BAM 8 <sup>th</sup> Edition, Chapter 14	≥1 CFU / ml, ≥10 CFU /g, ≥100 CFU/ml /g, Qualitative (Present/Absent)/0.1g/ml
		Enterobacteriaceae	IS 7402	≥10 CFU /g, ≥1 CFU / ml



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		Yeast & Mold	BAM 8 <sup>th</sup> Edition, Chapter 18/IS 5403	≥1 CFU / ml , ≥10 CFU /g, ≥100 CFU/g
		Coliforms	IS 5401 (Part 1 & 2) / BAM 8 <sup>th</sup> Edition, Chapter 4	≥1 CFU / ml, ≥10 CFU /g, (<0.3 MPN to 110 MPN) /g/ml, (<3 MPN to 1100 MPN) /g/ml, Qualitative (Present/Absent)/0.1g/ml
			AOAC 20 <sup>th</sup> Edition-991.14 (Petrifilm method)	≥1 CFU / ml , ≥10 CFU /g
		Vibrio parahaemolyticus	BAM 8 <sup>th</sup> Edition, Chapter 9/ IS 5887 (Part 5)	(<3 MPN to 1100 MPN) /g/ml, Qualitative (Present /Absent)/25g/ml
		Shigella	BAM 8 <sup>th</sup> Edition, Chapter 6	Qualitative (Present /Absent)/25g/ml
		Listeria monocytogenes	BAM 8 <sup>th</sup> Edition, Chapter 10	Qualitative (Present /Absent)/25g/ml
		Thermotolerant/ Fecal Coliforms	BAM 8 <sup>th</sup> Edition, Chapter 4	(<3 MPN to 1100 MPN) /g/ml
6.	<b>Egg &amp; Egg Products</b>	Escherichia coli	IS 5887 (Part 1) / BAM 8 <sup>th</sup> Edition, Chapter 4	≥1 CFU / ml, ≥10 CFU /g, (<0.3 MPN to 110 MPN) /g/ml, (<3 MPN to 1100 MPN) /g/ml, Qualitative

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				(Present/Absent)/0.1g/ml
			AOAC 20 <sup>th</sup> Edition-991.14 (Petrifilm method)	≥1 CFU / ml, ≥10 CFU /g
		Aerobic plate count	BAM 8 <sup>th</sup> Edition, Chapter 3/ IS 5402 / AOAC 20 <sup>th</sup> Edition – 990.12 (Petrifilm method)	≥1 CFU / ml, ≥10 CFU /g
		Salmonella	BAM 8 <sup>th</sup> Edition, Chapter 5 / IS 5887 (Part 3)	Qualitative (Present/Absent) /25 g or 25 ml
		Staphylococcus aureus	BAM 8 <sup>th</sup> Edition, Chapter12 /IS 5887 (Part 8/ Sec 1)	≥1 CFU / ml ≥10 CFU /g, Qualitative (Present/Absent)/0.1g/ml
		Clostridium perfringens	BAM 8 <sup>th</sup> Edition, Chapter16/IS 5887 (Part 4)	≥1 CFU / ml, ≥10 CFU /g, Qualitative (Present/Absent)/0.1g/ml
		Bacillus cereus	BAM 8 <sup>th</sup> Edition, Chapter 14	≥1 CFU / ml, ≥10 CFU /g, ≥100 CFU/ml /g, Qualitative (Present/Absent)/0.1g/ml
		Enterobacteriaceae	IS 7402	≥10 CFU /g, ≥1 CFU / ml
		Yeast & Mold	BAM 8 <sup>th</sup> Edition, Chapter 18/ IS 5403	≥1 CFU / ml , ≥10 CFU /g, ≥100 CFU/g

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		Coliforms	IS 5401 (Part 1 & 2) / BAM 8 <sup>th</sup> Edition, Chapter 4	≥1 CFU / ml, ≥10 CFU /g, (<0.3 MPN to 110 MPN) /g/ml, (<3 MPN to 1100 MPN) /g/ml, Qualitative (Present/Absent)/0.1g/ml
			AOAC 20 <sup>th</sup> Edition-991.14 (Petrifilm method)	≥1 CFU / ml, ≥10 CFU /g
		Vibrio parahaemolyticus	BAM 8 <sup>th</sup> Edition, Chapter 9/ IS 5887 (Part 5)	(<3 MPN to 1100 MPN) /g/ml, Qualitative (Present /Absent)/25g/ml
		Shigella	BAM 8 <sup>th</sup> Edition, Chapter 6	Qualitative (Present /Absent) 25g/ml
		Listeria monocytogenes	BAM 8 <sup>th</sup> Edition, Chapter 10	Qualitative (Present /Absent) 25g/ml
		Thermotolerant/ Fecal Coliforms	BAM 8 <sup>th</sup> Edition, Chapter 4	(<3 MPN to 1100 MPN) /g/ml
7.	<b>Fish &amp; Sea Food</b>	Escherichia coli	IS 5887 (Part 1) / BAM 8 <sup>th</sup> Edition, Chapter 4	≥1 CFU / ml , ≥10 CFU /g, (<0.3 MPN to 110 MPN) /g/ml, (<3 MPN to 1100 MPN) /g/ml, Qualitative (Present/Absent)/0.1g/ml
			AOAC 20 <sup>th</sup> Edition-991.14 (Petrifilm method)	≥1 CFU / ml, ≥10 CFU /g

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		Aerobic plate count	BAM 8 <sup>th</sup> Edition, Chapter 3/ IS 5402 / AOAC 20 <sup>th</sup> Edition – 990.12 (Petrifilm method)	≥1 CFU / ml, ≥10 CFU /g
		Salmonella	BAM 8 <sup>th</sup> Edition, Chapter 5 / IS 5887 (Part 3)	Qualitative (Present/Absent) /25 g or 25 ml
		Staphylococcus aureus	BAM 8 <sup>th</sup> Edition, Chapter12 / IS 5887 (Part 8/ Sec 1)	≥1 CFU / ml ≥10 CFU /g, Qualitative (Present/Absent)/0.1g/m l
		Clostridium perfringens	BAM 8 <sup>th</sup> Edition, Chapter16/ IS 5887 (Part 4)	≥1 CFU / ml, ≥10 CFU /g, Qualitative (Present/Absent)/0.1g/m l
		Bacillus cereus	BAM 8 <sup>th</sup> Edition, Chapter 14	≥1 CFU / ml, ≥10 CFU /g, ≥100 CFU/ml /g, Qualitative (Present/Absent)/0.1g/m l
		Enterobacteriaceae	IS 7402	≥10 CFU /g, ≥1 CFU / ml
		Yeast & Mold	BAM 8 <sup>th</sup> Edition, Chapter 18/ IS 5403	≥1 CFU / ml , ≥10 CFU /g, ≥100 CFU/g
		Coliforms	IS 5401 (Part 1 & 2) / BAM 8 <sup>th</sup> Edition,Chapter 4	≥1 CFU / ml, ≥10 CFU /g, (<0.3 MPN to 110 MPN) /g/ml, (<3 MPN to 1100 MPN) /g/ml, Qualitative

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				(Present/Absent)/0.1g/ml
			AOAC 20 <sup>th</sup> Edition-991.14 (Petrifilm method)	≥1 CFU / ml, ≥10 CFU /g
		Vibrio parahaemolyticus	BAM 8 <sup>th</sup> Edition, Chapter 9/ IS 5887 (Part 5)	(<3 MPN to 1100 MPN) /g/ml, Qualitative (Present /Absent) 25g/ml
		Vibrio cholerae	BAM 8 <sup>th</sup> Edition, Chapter 9/ IS 5887(Part 5)	Qualitative (Present /Absent) 25g/ml
		Shigella	BAM 8 <sup>th</sup> Edition, Chapter 6	Qualitative (Present /Absent) 25g/ml
		Listeria monocytogenes	BAM 8 <sup>th</sup> Edition, Chapter 10	Qualitative (Present /Absent) 25g/ml
		Thermotolerant/ Fecal Coliforms	BAM 8 <sup>th</sup> Edition, Chapter 4	(≥3 MPN to ≤1100 MPN)/g/ml
8.	<b>Fruit &amp; Fruit Products</b>	Escherichia coli	IS 5887 (Part 1) / BAM 8 <sup>th</sup> Edition, Chapter 4	≥1 CFU / ml, ≥10 CFU /g, (<0.3 MPN to 110 MPN) /g/ml, (<3 MPN to 1100 MPN) /g/ml, Qualitative (Present/Absent)/0.1g/ml

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			AOAC 20 <sup>th</sup> Edition-991.14 (Petrifilm method)	≥1 CFU / ml, ≥10 CFU /g
		Aerobic plate count	BAM 8 <sup>th</sup> Edition, Chapter 3/ IS 5402 /AOAC 20 <sup>th</sup> Edition-990.12 (Petrifilm method)	≥1 CFU / ml, ≥10 CFU /g
		Salmonella	BAM 8 <sup>th</sup> Edition, Chapter 5 / IS 5887 (Part 3)	Qualitative (Present/Absent) /25 g or 25 ml
		Staphylococcus aureus	BAM 8 <sup>th</sup> Edition, Chapter 12 / IS 5887 (Part 8/ Sec 1)	≥1 CFU / ml, ≥10 CFU /g, Qualitative (Present/Absent)/0.1g/ml
		Clostridium perfringens	BAM 8 <sup>th</sup> Edition, Chapter 16/ IS 5887 (Part 4)	≥1 CFU / ml, ≥10 CFU /g, Qualitative (Present/Absent)/0.1g/ml
		Bacillus cereus	BAM 8 <sup>th</sup> Edition, Chapter 14	≥1 CFU / ml, ≥10 CFU /g, ≥100 CFU/ml /g, Qualitative (Present/Absent)/0.1g/ml
		Enterobacteriaceae	IS 7402	≥10 CFU /g , ≥1 CFU / ml
		Yeast & Mold	BAM 8 <sup>th</sup> Edition, Chapter 18/ IS 5403	≥1 CFU / ml , ≥10 CFU /g, ≥100 CFU/g
		Coliforms	IS 5401 (Part 1 & 2) / BAM 8 <sup>th</sup> Edition, Chapter 4	≥1 CFU / ml, ≥10 CFU /g, (<0.3 MPN to 110 MPN)

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
				/g/ml, (<3 MPN to 1100 MPN) /g/ml, Qualitative (Present/Absent) / 0.1 g/ml
			AOAC 20 <sup>th</sup> Edition-991.14 (Petrifilm method)	≥1 CFU / ml, ≥10 CFU /g
		Vibrio parahaemolyticus	BAM 8 <sup>th</sup> Edition, Chapter 9/ IS 5887 (Part 5)	(<3 MPN to 1100 MPN) /g/ml, Qualitative (Present /Absent) 25g/ml
		Shigella	BAM 8 <sup>th</sup> Edition, Chapter 6	Qualitative (Present /Absent) 25g/ml
		Listeria monocytogenes	BAM 8 <sup>th</sup> Edition, Chapter 10	Qualitative (Present /Absent) 25g/ml
		Thermotolerant/ Fecal Coliforms	BAM 8 <sup>th</sup> Edition, Chapter 4	(<3 MPN to 1100 MPN) /g/ml
9.	<b>Herbs, Spices &amp; Condiments Whole, ground and Oleoresins</b>	Escherichia coli	IS 5887 (Part 1) / BAM 8 <sup>th</sup> Edition, Chapter 4	≥10 CFU /g/ml, (<0.3 MPN to 110 MPN) /g/ml, (<3 MPN to 1100 MPN) /g/ml, Qualitative (Present/Absent) / 0.1g/ml
			AOAC 20 <sup>th</sup> Edition-991.14 (Petrifilm method)	≥10 CFU /g/ml
		Aerobic plate count	BAM 8 <sup>th</sup> Edition, Chapter 3/ IS 5402 / AOAC 20 <sup>th</sup> Edition ; 990.12 (Petrifilm method)	≥10 CFU /g/ml
		Salmonella	BAM 8 <sup>th</sup> Edition, Chapter 5	Qualitative

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			/ IS 5887 (Part 3)	(Present/Absent) /25 g or 25 ml
		Staphylococcus aureus	BAM 8 <sup>th</sup> Edition, Chapter12 / IS 5887 (Part 8/ Sec 1)	≥10 CFU /g/ml, Qualitative (Present/Absent)/0.1g/ml
		Clostridium perfringens	BAM 8 <sup>th</sup> Edition, Chapter16 / IS 5887 (Part 4)	≥10 CFU /g or ml, Qualitative (Present/Absent)/0.1g/ml
		Bacillus cereus	BAM 8 <sup>th</sup> Edition, Chapter 14	≥10 CFU /g/ml , ≥100 CFU/ml/g Qualitative (Present/Absent)/0.1g/ml
		Enterobacteriaceae	IS 7402	≥10 CFU /g/ml
		Yeast & Mold	BAM 8 <sup>th</sup> Edition, Chapter 18/ IS 5403	≥10 CFU /g/ml, ≥100 CFU/g/ml
		Coliforms	IS 5401 (Part 1 & 2) / BAM 8 <sup>th</sup> Edition, Chapter 4	≥10 CFU /g/ml, (<0.3 MPN to 110 MPN) /g/ml, (<3 MPN to 1100 MPN) /g/ml, Qualitative (Present/Absent)/0.1g/ml
			AOAC 20 <sup>th</sup> Edition-991.14 (Petrifilm method)	≥10 CFU /g/ml
		Shigella	BAM 8 <sup>th</sup> Edition, Chapter 6	Qualitative (Present /Absent) 25g/ml
		Listeria monocytogenes	BAM 8 <sup>th</sup> Edition, Chapter 10	Qualitative (Present /Absent) 25g/ml



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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
10.	Jams, Juices, Sauces and Concentrates	Escherichia coli	IS 5887 (Part 1) / BAM 8 <sup>th</sup> Edition, Chapter 4	≥1 CFU / ml, ≥10 CFU /g, (<0.3 MPN to 110 MPN) /g/ml, (<3 MPN to 1100 MPN) /g/ml, Qualitative (Present/Absent)/0.1g/ml
			AOAC 20 <sup>th</sup> Edition-991.14 (Petrifilm method)	≥1 CFU / ml, ≥10 CFU /g
		Aerobic plate count	BAM 8 <sup>th</sup> Edition, Chapter 3/ IS 5402 / AOAC 20 <sup>th</sup> Edition – 990.12 (Petrifilm method)	≥1 CFU / ml, ≥10 CFU /g
		Salmonella	BAM 8 <sup>th</sup> Edition, Chapter 5 / IS 5887 (Part 3)	Qualitative (Present/Absent) /25g/ml
		Staphylococcus aureus	BAM 8 <sup>th</sup> Edition, Chapter 12 / IS 5887 (Part 8/ Sec 1)	≥1 CFU / ml, ≥10 CFU /g, Qualitative (Present/Absent)/0.1g/ml
		Clostridium perfringens	BAM 8 <sup>th</sup> Edition, Chapter 16/ IS 5887 (Part 4)	≥1 CFU / ml , ≥10 CFU /g, Qualitative (Present/Absent)/0.1g/ml
		Bacillus cereus	BAM 8 <sup>th</sup> Edition, Chapter 14	≥1 CFU / ml, ≥10 CFU /g, ≥100 CFU/ml /g, Qualitative (Present/Absent)/0.1g/ml

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Enterobacteriaceae	IS 7402	≥10 CFU /g, ≥1 CFU / ml
		Yeast & Mold	BAM 8 <sup>th</sup> Edition, Chapter 18/ IS 5403	≥1 CFU / ml, ≥10 CFU /g, ≥100 CFU/g
		Coliforms	IS 5401 (Part 1 & 2) / BAM 8 <sup>th</sup> Edition, Chapter 4	≥1 CFU / ml , ≥10 CFU /g, (<0.3 MPN to 110 MPN) /g/ml, (<3 MPN to 1100 MPN) /g/ml, Qualitative (Present/Absent)/0.1g/ml
			AOAC 20 <sup>th</sup> Edition-991.14 (Petrifilm method)	≥1 CFU / ml , ≥10 CFU /g
		Vibrio parahaemolyticus	BAM 8 <sup>th</sup> Edition, Chapter 9/ IS 5887 (Part 5)	(<3 MPN to 1100 MPN) /g/ml, Qualitative (Present /Absent) 25g/ml
		Shigella	BAM 8 <sup>th</sup> Edition, Chapter 6	Qualitative (Present /Absent) 25g/ml
		Listeria monocytogenes	BAM 8 <sup>th</sup> Edition, Chapter 10	Qualitative (Present /Absent) 25g/ml
		Thermotolerant/ Fecal Coliforms	BAM 8 <sup>th</sup> Edition, Chapter 4	(<3 MPN to 1100 MPN) /g/ml
11.	Meat & Meat products	Escherichia coli	IS 5887 (Part 1) / BAM 8 <sup>th</sup> Edition, Chapter 4	≥1 CFU / ml, ≥10 CFU /g, (<0.3 MPN to 110 MPN) /g/ml, (<3 MPN to 1100 MPN) /g/ml, Qualitative

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				(Present/Absent)/0.1g/ml
			AOAC 20 <sup>th</sup> Edition-991.14 (Petrifilm method)	≥1 CFU / ml, ≥10 CFU /g
		Aerobic plate count	BAM 8 <sup>th</sup> Edition, Chapter 3/ IS 5402 / AOAC 20 <sup>th</sup> Edition – 990.12 (Petrifilm method)	≥1 CFU / ml , ≥10 CFU /g
		Salmonella	BAM 8 <sup>th</sup> Edition, Chapter 5 / IS 5887 (Part 3)	Qualitative (Present/Absent) /25 g or 25 ml
		Staphylococcus aureus	BAM 8 <sup>th</sup> Edition,Chapter12 / IS 5887 (Part 8/ Sec 1)	≥1 CFU / ml , ≥10 CFU /g, Qualitative (Present/Absent)/0.1g/ml
		Clostridium perfringens	BAM 8 <sup>th</sup> Edition, Chapter16/ IS 5887 (Part 4)	≥1 CFU / ml , ≥10 CFU /g, Qualitative (Present/Absent)/0.1g/ml
		Bacillus cereus	BAM 8 <sup>th</sup> Edition, Chapter 14	≥1 CFU / ml, ≥10 CFU /g, ≥100 CFU/ml /g, Qualitative (Present/Absent)/0.1g/ml
		Enterobacteriaceae	IS 7402	≥10 CFU /g, ≥1 CFU / ml
		Yeast & Mold	BAM 8 <sup>th</sup> Edition,Chapter 18/ IS 5403	≥1 CFU / ml, ≥10 CFU /g, ≥100 CFU/g
		Coliforms	IS 5401 (Part 1 & 2) / BAM 8 <sup>th</sup> Edition, Chapter	≥1 CFU / ml , ≥10 CFU /g,

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			4	(<0.3 MPN to 110 MPN) /g/ml, (<3 MPN to 1100 MPN) /g/ml, Qualitative (Present/Absent)/0.1g/ml
			AOAC 20 <sup>th</sup> Edition-991.14 (Petrifilm method)	≥1 CFU / ml, ≥10 CFU /g
		Vibrio parahaemolyticus	BAM 8 <sup>th</sup> Edition, Chapter 9/ IS 5887 (Part 5)	≥3 MPN to ≤1100 MPN/g/ml Qualitative (Present /Absent) 25g/ml
		Shigella	BAM 8 <sup>th</sup> Edition, Chapter 6	Qualitative (Present /Absent) 25g/ml
		Listeria monocytogenes	BAM 8 <sup>th</sup> Edition, Chapter 10	Qualitative (Present /Absent) 25g/ml
		Thermotolerant/ Fecal Coliforms	BAM 8 <sup>th</sup> Edition, Chapter 4	(<3 MPN to 1100 MPN) /g/ml
12.	Milk and Dairy products	Escherichia coli	IS 5887 (Part 1) / BAM 8 <sup>th</sup> Edition, Chapter 4	≥1 CFU / ml, ≥10 CFU /g, (<0.3 MPN to 110 MPN) /g/ml, (<3 MPN to 1100 MPN) /g/ml, Qualitative (Present/Absent) / 0.1 g/ml
			AOAC 20 <sup>th</sup> Edition-991.14 (Petrifilm method)	≥1 CFU / ml, ≥10 CFU /g
		Aerobic plate count	BAM 8 <sup>th</sup> Edition, Chapter 3/ IS 5402 /AOAC 20 <sup>th</sup> Edition	≥1 CFU / ml, ≥10 CFU /g

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			- 990.12 (Petrifilm method)	
		Salmonella	BAM 8 <sup>th</sup> Edition, Chapter 5 / IS 5887 (Part 3)	Qualitative (Present/Absent) /25 g or 25 ml
		Staphylococcus aureus	BAM 8 <sup>th</sup> Edition, Chapter 12 / IS 5887 (Part 8/ Sec 1)	≥1 CFU / ml, ≥10 CFU /g, Qualitative (Present/Absent)/0.1g/ml
		Clostridium perfringens	BAM 8 <sup>th</sup> Edition, Chapter 16/ IS 5887 (Part 4)	≥1 CFU/ ml , ≥10 CFU/g, Qualitative (Present/Absent)/0.1g/ml
		Bacillus cereus	BAM 8 <sup>th</sup> Edition, Chapter 14	≥1 CFU / ml, ≥10 CFU /g, ≥100 CFU/ml /g, Qualitative (Present/Absent)/0.1g/ml
		Enterobacteriaceae	IS 7402	≥10 CFU /g, ≥1 CFU / ml
		Yeast & Mold	BAM 8 <sup>th</sup> Edition, Chapter 18/ IS 5403	≥1 CFU / ml, ≥10 CFU /g, ≥100 CFU/g
		Coliforms	IS 5401 (Part 1 & 2) / BAM 8 <sup>th</sup> Edition, Chapter 4	≥1 CFU / ml , ≥10 CFU /g, (<0.3 MPN to 110 MPN) /g/ml, (<3 MPN to 1100 MPN) /g/ml, Qualitative (Present/Absent)/0.1g/ml
			AOAC 20 <sup>th</sup> Edition-991.14 (Petrifilm method)	≥1 CFU / ml, ≥10 CFU /g

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Vibrio parahaemolyticus	BAM 8 <sup>th</sup> Edition, Chapter 9/ IS 5887 (Part 5)	(<3 MPN to 1100 MPN) /g/ml, Qualitative (Present /Absent) 25g/ml
		Shigella	BAM 8 <sup>th</sup> Edition, Chapter 6	Qualitative (Present /Absent) 25g/ml
		Listeria monocytogenes	BAM 8 <sup>th</sup> Edition, Chapter 10	Qualitative (Present /Absent) 25g/ml
		Thermotolerant/ Fecal Coliforms	BAM 8 <sup>th</sup> Edition, Chapter 4	(<3 MPN to 1100 MPN) /g/ml
13.	Nuts & Nut products	Escherichia coli	IS 5887 (Part 1) / BAM 8 <sup>th</sup> Edition, Chapter 4	≥1 CFU / ml, ≥10 CFU /g, (<0.3 MPN to 110 MPN) /g/ml, (<3 MPN to 1100 MPN) /g/ml, Qualitative (Present/Absent)/0.1g/m l
			AOAC 20 <sup>th</sup> Edition-991.14 (Petrifilm method)	≥1 CFU / ml, ≥10 CFU /g
		Aerobic plate count	BAM 8 <sup>th</sup> Edition, Chapter 3/ IS 5402 /AOAC 20 <sup>th</sup> Edition – 990.12 (Petrifilm method)	≥1 CFU / ml , ≥10 CFU /g
		Salmonella	BAM 8 <sup>th</sup> Edition, Chapter 5 / IS 5887 (Part 3)	Qualitative (Present/Absent) /25 g or 25 ml
		Staphylococcus aureus	BAM 8 <sup>th</sup> Edition,Chapter12 / IS 5887 (Part 8/ Sec 1)	≥1 CFU / ml, ≥10 CFU /g, Qualitative (Present/Absent)/0.1g/m l

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Clostridium perfringens	BAM 8 <sup>th</sup> Edition, Chapter 16/ IS 5887 (Part 4)	≥1 CFU / ml , ≥10 CFU /g, Qualitative (Present/Absent)/0.1g/ml
		Bacillus cereus	BAM 8 <sup>th</sup> Edition, Chapter 14	≥1 CFU / ml, ≥10 CFU /g ≥100 CFU/ml /g Qualitative (Present/Absent)/0.1g/ml
		Enterobacteriaceae	IS 7402	≥10 CFU /g, ≥1 CFU / ml
		Yeast & Mold	BAM 8 <sup>th</sup> Edition, Chapter 18/ IS 5403	≥1 CFU / ml, ≥10 CFU /g , ≥100 CFU/g
		Coliforms	IS 5401 (Part 1 & 2) / BAM 8 <sup>th</sup> Edition, Chapter 4	≥1 CFU / ml , ≥10 CFU /g, (<0.3 MPN to 110 MPN) /g/ml, (<3 MPN to 1100 MPN) /g/ml, Qualitative (Present/Absent)/0.1g/ml
			AOAC 20 <sup>th</sup> Edition-991.14 (Petrifilm method)	≥1 CFU / ml, ≥10 CFU /g
		Vibrio parahaemolyticus	BAM 8 <sup>th</sup> Edition, Chapter 9/ IS 5887 (Part 5)	(<3 MPN to 1100 MPN) /g/ml, Qualitative (Present /Absent) 25g/ml
		Shigella	BAM 8 <sup>th</sup> Edition, Chapter 6	Qualitative (Present /Absent) 25g/ml

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Listeria monocytogenes	BAM 8 <sup>th</sup> Edition, Chapter 10	Qualitative (Present /Absent) 25g/ml
		Thermotolerant/ Fecal Coliforms	BAM 8 <sup>th</sup> Edition, Chapter 4	≥3 MPN to ≤1100 MPN/g/ml
14.	Poultry & Poultry products	Escherichia coli	IS 5887 (Part 1) / BAM 8 <sup>th</sup> Edition, Chapter 4	≥1 CFU / ml, ≥10 CFU /g, (<0.3 MPN to 110 MPN) /g/ml, (<3 MPN to 1100 MPN) /g/ml, Qualitative (Present/Absent)/0.1g/ml
			AOAC 20 <sup>th</sup> Edition-991.14 (Petrifilm method)	≥1 CFU / ml, ≥10 CFU /g
		Aerobic plate count	BAM 8 <sup>th</sup> Edition, Chapter 3/ IS 5402 / AOAC 20 <sup>th</sup> Edition – 990.12 (Petrifilm method)	≥1 CFU / ml, ≥10 CFU /g
		Salmonella	BAM 8 <sup>th</sup> Edition, Chapter 5 / IS 5887 (Part 3)	Qualitative (Present/Absent) /25 g or 25 ml
		Staphylococcus aureus	BAM 8 <sup>th</sup> Edition, Chapter 12 / IS 5887 (Part 8/ Sec 1)	≥1 CFU / ml ≥10 CFU /g, Qualitative (Present/Absent)/0.1g/ml
		Clostridium perfringens	BAM 8 <sup>th</sup> Edition, Chapter 16/ IS 5887 (Part 4)	≥1 CFU / ml ≥10 CFU /g Qualitative (Present/Absent)/0.1g/ml



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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Bacillus cereus	BAM 8 <sup>th</sup> Edition, Chapter 14	≥1 CFU / ml, ≥10 CFU /g, ≥100 CFU/ml /g, Qualitative (Present/Absent)/0.1g/ml
		Enterobacteriaceae	IS 7402	≥10 CFU /g, ≥1 CFU / ml
		Yeast & Mold	BAM 8 <sup>th</sup> Edition, Chapter 18/ IS 5403	≥1 CFU / ml , ≥10 CFU /g, ≥100 CFU/g
		Coliforms	IS 5401 (Part 1 & 2) / BAM 8 <sup>th</sup> Edition, Chapter 4	≥1 CFU / ml , ≥10 CFU /g (<0.3 MPN to 110 MPN) /g/ml, (<3 MPN to 1100 MPN) /g/ml, Qualitative (Present/Absent)/0.1g/ml
			AOAC 20 <sup>th</sup> Edition-991.14 (Petrifilm method)	≥1 CFU / ml, ≥10 CFU /g
		Vibrio parahaemolyticus	BAM 8 <sup>th</sup> Edition, Chapter 9/ IS 5887 (Part 5)	(<3 MPN to 1100 MPN) /g/ml, Qualitative (Present /Absent) 25g/ml
		Shigella	BAM 8 <sup>th</sup> Edition, Chapter 6	Qualitative (Present /Absent) 25g/ml
		Listeria monocytogenes	BAM 8 <sup>th</sup> Edition, Chapter 10	Qualitative (Present /Absent) 25g/ml
		Thermotolerant/	BAM 8 <sup>th</sup> Edition, Chapter 4	(<3 MPN to 1100 MPN)

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		Fecal Coliforms		/g/ml
15.	Snacks & Instant Mixes	Escherichia coli	IS 5887 (Part 1) / BAM 8 <sup>th</sup> Edition, Chapter 4	≥1 CFU / ml , ≥10 CFU /g, (<0.3 MPN to 110 MPN) /g/ml, (<3 MPN to 1100 MPN) /g/ml, Qualitative (Present/Absent)/0.1g/ml
			AOAC 20 <sup>th</sup> Edition-991.14 (Petrifilm method)	≥1 CFU / ml, ≥10 CFU /g
		Aerobic plate count	BAM 8 <sup>th</sup> Edition, Chapter 3/ IS 5402 /AOAC 20 <sup>th</sup> Edition – 990.12 (Petrifilm method)	≥1 CFU / ml, ≥10 CFU /g
		Salmonella	BAM 8 <sup>th</sup> Edition, Chapter 5 / IS 5887 (Part 3)	Qualitative (Present/Absent) /25 g or 25 ml
		Staphylococcus aureus	BAM 8 <sup>th</sup> Edition, Chapter 12 / IS 5887 (Part 8/ Sec 1)	≥1 CFU / ml , ≥10 CFU /g, Qualitative (Present/Absent)/0.1g/ml
		Clostridium perfringens	BAM 8 <sup>th</sup> Edition, Chapter 16/ IS 5887 (Part 4)	≥1 CFU / ml , ≥10 CFU /g, Qualitative (Present/Absent)/0.1g/ml
		Bacillus cereus	BAM 8 <sup>th</sup> Edition, Chapter 14	≥1 CFU / ml, ≥10 CFU /g , ≥100 CFU/ml /g, Qualitative (Present/Absent)/0.1g/ml
		Enterobacteriaceae	IS 7402	≥10 CFU /g, ≥1 CFU / ml

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		Yeast & Mold	BAM 8 <sup>th</sup> Edition, Chapter 18/ IS 5403	≥1 CFU / ml , ≥10 CFU /g, ≥100 CFU/g
		Coliforms	IS 5401 (Part 1 & 2) / BAM 8 <sup>th</sup> Edition, Chapter 4	≥1 CFU / ml, ≥10 CFU /g, (<0.3 MPN to 110 MPN) /g/ml, (<3 MPN to 1100 MPN) /g/ml, Qualitative (Present/Absent)/0.1g/ml
			AOAC 20 <sup>th</sup> Edition-991.14 (Petrifilm method)	≥1 CFU / ml, ≥10 CFU /g
		Vibrio parahaemolyticus	BAM 8 <sup>th</sup> Edition, Chapter 9/ IS 5887 (Part 5)	(<3 MPN to 1100 MPN) /g/ml, Qualitative (Present /Absent) 25g/ml
		Shigella	BAM 8 <sup>th</sup> Edition, Chapter 6	Qualitative (Present /Absent) 25g/ml
		Listeria monocytogenes	BAM 8 <sup>th</sup> Edition, Chapter 10	Qualitative (Present /Absent) 25g/ml
		Thermotolerant/ Fecal Coliforms	BAM 8 <sup>th</sup> Edition, Chapter 4	(<3 MPN to 1100 MPN) /g/ml
<b>16.</b>	<b>Tea</b>	Aerobic plate count	BAM 8 <sup>th</sup> Edition, Chapter 3/ IS 5402	≥10 CFU /g
		Yeast & Mold	BAM 8 <sup>th</sup> Edition, Chapter 18 / IS 5403	≥10 CFU /g, ≥100 CFU/g
		Coliforms	BAM 8 <sup>th</sup> Edition, Chapter 4 / IS 5401 (Part 1 & 2)	≥10 CFU /g, (<0.3 MPN to 110 MPN) /g/ml, (<3 MPN to 1100 MPN) /g/ml,

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				Qualitative (Present/Absent)/ 0.1g/ml
		Escherichia coli	BAM 8 <sup>th</sup> Edition, Chapter 4 / IS 5887 (Part 1)	≥10 CFU /g, (<0.3 MPN to 110 MPN) /g/ml, (<3 MPN to 1100 MPN) /g/ml, Qualitative (Present/Absent)/0.1g/ml
		Salmonella	BAM 8 <sup>th</sup> Edition, Chapter 5 / IS 5887 (Part 3)	Qualitative (Present/Absent) /25 g or 25 ml
		Staphylococcus aureus	BAM 8 <sup>th</sup> Edition, Chapter 12 / IS 5887 (Part 8/ Sec 1)	≥10 CFU /g, Qualitative (Present/Absent)/0.1g/ml
		Enterobacteriaceae	IS 7402	≥10 CFU /g
		Thermotolerant/ Fecal Coliforms	BAM 8 <sup>th</sup> Edition, Chapter 4	(<3 MPN to 1100 MPN) /g/ml
17.	<b>Vegetable &amp; Vegetable products</b>	Escherichia coli	IS 5887 (Part 1) / BAM 8 <sup>th</sup> Edition, Chapter 4	≥1 CFU / ml, ≥10 CFU /g, (<0.3 MPN to 110 MPN) /g/ml, (<3 MPN to 1100 MPN) /g/ml, Qualitative (Present/Absent)/0.1g/ml
			AOAC 20 <sup>th</sup> Edition-991.14 (Petrifilm method)	≥1 CFU / ml , ≥10 CFU /g
		Aerobic plate count	BAM 8 <sup>th</sup> Edition, Chapter 3/ IS 5402 / AOAC 20 <sup>th</sup> Edition – 990.12 (Petrifilm	≥1 CFU / ml , ≥10 CFU /g

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			method)	
		Salmonella	BAM 8 <sup>th</sup> Edition, Chapter 5 / IS 5887 (Part 3)	Qualitative (Present/Absent) /25 g or 25 ml
		Staphylococcus aureus	BAM 8 <sup>th</sup> Edition,Chapter12 / IS 5887 (Part 8/ Sec 1)	≥1 CFU / ml ≥10 CFU /g, Qualitative (Present/Absent)/0.1g/ml
		Clostridium perfringens	BAM 8 <sup>th</sup> Edition, Chapter16/ IS 5887 (Part 4)	≥1 CFU / ml, ≥10 CFU /g , Qualitative (Present/Absent)/0.1g/ml
		Bacillus cereus	BAM 8 <sup>th</sup> Edition, Chapter 14	≥1 CFU / ml, ≥10 CFU /g , ≥100 CFU/ml /g Qualitative (Present/Absent)/0.1g/ml
		Enterobacteriaceae	IS 7402	≥10 CFU /g, ≥1 CFU / ml
		Yeast & Mold	BAM 8 <sup>th</sup> Edition,Chapter 18/ IS 5403	≥1 CFU / ml , ≥10 CFU /g, ≥100 CFU/g
		Coliforms	IS 5401 (Part 1 & 2) / BAM 8 <sup>th</sup> Edition, Chapter 4	≥1 CFU / ml ≥10 CFU /g (<0.3 MPN to 110 MPN) /g/ml, (<3 MPN to 1100 MPN) /g/ml, Qualitative (Present/Absent) / 0.1 g/ml
			AOAC 20 <sup>th</sup> Edition-991.14	≥1 CFU / ml

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			(Petrifilm method)	≥10 CFU /g
		Vibrio parahaemolyticus	BAM 8 <sup>th</sup> Edition, Chapter 9/ IS 5887 (Part 5)	(<3 MPN to 1100 MPN) /g/ml, Qualitative (Present /Absent) 25g/ml
		Shigella	BAM 8 <sup>th</sup> Edition, Chapter 6	Qualitative (Present /Absent) 25g/ml
		Listeria monocytogenes	BAM 8 <sup>th</sup> Edition, Chapter 10	Qualitative (Present /Absent) 25g/ml
		Thermotolerant/ Fecal Coliforms	BAM 8 <sup>th</sup> Edition, Chapter 4	(<3 MPN to 1100 MPN) /g/ml
18.	Cereals, Pulses & cereal products	Escherichia coli	IS 5887 (Part 1) / BAM 8 <sup>th</sup> Edition, Chapter 4	≥1 CFU / ml , ≥10 CFU /g, (<0.3 MPN to 110 MPN) /g/ml, (<3 MPN to 1100 MPN) /g/ml, Qualitative (Present/Absent)/0.1g/m l
			AOAC 20 <sup>th</sup> Edition-991.14 (Petrifilm method)	≥1 CFU / ml, ≥10 CFU /g
		Aerobic plate count	BAM 8 <sup>th</sup> Edition, Chapter 3/ IS 5402 / AOAC 20 <sup>th</sup> Edition – 990.12 (Petrifilm method)	≥1 CFU / ml , ≥10 CFU /g
		Salmonella	BAM 8 <sup>th</sup> Edition, Chapter 5 / IS 5887 (Part 3)	Qualitative (Present/Absent) /25 g or 25 ml
		Staphylococcus aureus	BAM 8 <sup>th</sup> Edition,Chapter12 / IS 5887 (Part 8/ Sec 1)	≥1 CFU / ml , ≥10 CFU /g, Qualitative

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				(Present/Absent)/0.1g/ml
		Clostridium perfringens	BAM 8 <sup>th</sup> Edition, Chapter 16/ IS 5887 (Part 4)	≥1 CFU / ml , ≥10 CFU /g, Qualitative (Present/Absent)/0.1g/ml
		Bacillus cereus	BAM 8 <sup>th</sup> Edition, Chapter 14	≥1 CFU / ml, ≥10 CFU /g , ≥100 CFU/ml /g, Qualitative (Present/Absent)/0.1g/ml
		Enterobacteriaceae	IS 7402	≥10 CFU/g, ≥1 CFU/ml
		Yeast & Mold	BAM 8 <sup>th</sup> Edition, Chapter 18/ IS 5403	≥1 CFU / ml, ≥10 CFU /g, ≥100 CFU/g
		Coliforms	IS 5401 (Part 1 & 2) / BAM 8 <sup>th</sup> Edition, Chapter 4	≥1 CFU / ml, ≥10 CFU /g, (<0.3 MPN to 110 MPN) /g/ml, (<3 MPN to 1100 MPN) /g/ml, Qualitative (Present/Absent)/0.1g/ml
			AOAC 20 <sup>th</sup> Edition-991.14 (Petrifilm method)	≥1 CFU / ml, ≥10 CFU /g
		Vibrio parahaemolyticus	BAM 8 <sup>th</sup> Edition, Chapter 9/ IS 5887 (Part 5)	(<3 MPN to 1100 MPN) /g/ml, Qualitative (Present /Absent)/25g/ml
		Shigella	BAM 8 <sup>th</sup> Edition, Chapter 6	Qualitative

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				(Present /Absent)/25g/ml
		Listeria monocytogenes	BAM 8 <sup>th</sup> Edition, Chapter 10	Qualitative (Present /Absent)/25g/ml
		Thermotolerant/ Fecal Coliforms	BAM 8 <sup>th</sup> Edition, Chapter 4	(<3 MPN to 1100 MPN) /g/ml
II.	<b>WATER</b>			
1.	<b>Drinking Water, Water from Purifiers, Ground water/ Surface water</b>	Aerobic plate count	IS 1622	≥1 CFU / ml
		Escherichia coli	IS 1622	(1 to 161 MPN) /100 ml Qualitative (Present/Absent) /100 ml
		Coliforms	IS 1622	(1 to 161 MPN) /100 ml Qualitative (Present/Absent) /100 ml
		Fecal Coliforms	IS 1622	(<2 to 1600 MPN) /100 ml
		Yeast & Mold	IS 5403	≥1 CFU / ml
		Salmonella	IS 15187	Qualitative (Present/Absent) /100 ml
		Fecal Streptococci	IS 1622	(<2 MPN to 1600 MPN) /100 ml
2.	<b>Water for Processed Food Industry, Tap water, Process water</b>	Aerobic plate count	IS 1622	≥1 CFU / ml
		Escherichia coli	IS 1622	(1 to 161 MPN) /100 ml Qualitative (Present/Absent) /100 ml
		Coliforms	IS 1622	(1 to 161 MPN) /100 ml



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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
				Qualitative (Present/Absent) /100 ml
		Fecal Coliforms	IS 1622	(<2 MPN to 1600 MPN) /100 ml
		Yeast & Mold	IS 5403	≥1 CFU / ml
		Salmonella	IS 15187	Qualitative (Present/Absent) /100 ml
		Fecal Streptococci	IS 1622	(<2 MPN to 1600 MPN) /100 ml
3.	Water for Swimming Pools & Spas	Aerobic plate count	IS 1622	≥1 CFU / ml
		Escherichia coli	IS 1622	(<2 MPN to 1600 MPN) /100 ml, Qualitative (Present/Absent) /100 ml
		Coliforms	IS 1622	(<2 MPN to 1600 MPN)/100 ml, Qualitative (Present/Absent) /100 ml
		Fecal Coliforms	IS 1622	(<2 MPN to 1600 MPN) /100 ml
		Yeast & Mold	IS 5403	≥1 CFU / ml
		Salmonella	IS 15187	Qualitative (Present/Absent) /100 ml
		Fecal Streptococci	IS 1622	(<2 MPN to 1600 MPN) /100 ml
III.	<b>ENVIRONMENT &amp; POLLUTION</b>			
1.	Swab & Air			

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
a.	<b>Surface Swab (Working tables, Equipments, Personnel hygiene, utensils)</b>	Aerobic plate count	APHA Compendium 5 <sup>th</sup> Edition, Chapter 3 / MOA/MB/48	≥4 CFU /cm <sup>2</sup> Qualitative (Present/Absent) / swab ≥1 CFU /swab
		Yeast & Mold	APHA Compendium 5 <sup>th</sup> Ed, Chapter 3 / MOA/MB/49	≥4 CFU / cm <sup>2</sup>
		Coliforms	APHA Compendium 5 <sup>th</sup> Edition, Chapter 3 / MOA/MB/50	≥4 CFU / cm <sup>2</sup> , Qualitative (Present/Absent) / swab, ≥1 CFU /swab
		Escherichia coli	APHA Compendium 5 <sup>th</sup> Ed, Chapter 3 / MOA/MB/51	≥4 CFU / cm <sup>2</sup>
		Staphylococcus aureus	APHA Compendium 5 <sup>th</sup> Edn, Chapter 3 / MOA/MB/53	≥4 CFU /cm <sup>2</sup>
b.	<b>Air</b>	Aerobic plate count	APHA Compendium 5 <sup>th</sup> Edn, Chapter 3 / MOA/MB/53	≥1 CFU / m <sup>3</sup>
			APHA Compendium 5 <sup>th</sup> Edition, Chapter 3 - Open plate method / MOA/MB/55	≥1 CFU / Plate/ 15 min
		Yeast & Mold	APHA Compendium 5 <sup>th</sup> Edn, Chapter 3 / MOA/MB/54	≥1 CFU / m <sup>3</sup>
			APHA Compendium 5 <sup>th</sup> Edition, Chapter 3 - Open plate method / MOA/MB/56	≥1 CFU / Plate/15 min
<b>IV.</b>	<b>COSMETICS AND ESSENTIAL OILS</b>			
1.	<b>Perfumes, Cosmetics, Hygiene products, Toothpaste</b>	Aerobic plate count	IS 14648	≥1 CFU / ml, ≥10 CFU /g
		Yeast & Mold	IS 14648	≥1 CFU / ml, ≥10 CFU /g
		Escherichia coli	IS 14648	Qualitative (Present/absent)/1g/ml

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		Staphylococcus aureus	IS 14648	Qualitative (Present/absent)/1g/ml
		Pseudomonas aeruginosa	IS 14648	Qualitative (Present/absent)/1g/ml
<b>V.</b>	<b>AYUSH PRODUCTS</b>			
<b>1.</b>	<b>Ayurvedic drugs</b>	Aerobic plate count	API Part 2, 1 <sup>st</sup> Edition, Appendix 2, Section 2.4	≥1 CFU / ml, ≥10 CFU /g
		Yeast & Mold		≥1 CFU / ml , ≥10 CFU /g
		Escherichia coli		Qualitative (Present/absent)/1g/ml
		Staphylococcus aureus		Qualitative (Present/absent)/1g/ml
		Salmonella		Qualitative (Present/absent)/1g/ml
		Pseudomonas aeruginosa		Qualitative (Present/absent)/1g/ml
<b>2.</b>	<b>Herbal formulations Arishtam, Kasahayam, Lehyam, Choornam, Gritham, Tablet</b>	Aerobic plate count	API Part 2, 1 <sup>st</sup> Edition, Appendix 2, Section 2.4	≥1 CFU /ml, ≥10 CFU /g
		Yeast & Mold		≥1 CFU /ml , ≥10 CFU /g
		Escherichia coli		Qualitative (Present/absent)/1g/ml
		Staphylococcus aureus		Qualitative (Present/absent)/1g/ml
		Salmonella		Qualitative (Present/absent)/1g/ml
		Pseudomonas aeruginosa		Qualitative (Present/absent)/1g/ml
<b>VI.</b>	<b>IDENTIFICATION/ENUMERATION OF MICROBIAL PATHOGENS</b>			

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1.	<b>Test Kits/ Rapid tests</b>			
a.	<b>Food- Raw meat, Raw poultry and raw seafood &amp; Environmental samples,</b>	Salmonella	MOA/MB/ 46	Qualitative (Present/Absent) /25 g or 25 ml
b.	<b>Cooked meat, cooked fish, milk and milk products</b>	Listeria	MOA/MB/ 47	Qualitative (Present/Absent) /25 g or 25 ml

### CHEMICAL TESTING

I.	<b>AYUSH PRODUCTS</b>			
1.	<b>Ayurvedic Drugs, Herbal formulations</b>	Total Fatty Matter	API-Part II Vol 2 App 2.2.16	0.1 % to 80 %
		Alcohol Content at 15.56°C/ 15.56°C	API-Part II Vol 2 App 3.17	0.5 % to 100 %
		Refractive Index at 25°C	API- Part II Vol 2 App 3.1	1.4220 to 1.4895
		Rancidity	API- Part II Vol 2 App 3.16	Qualitative test
		Total Ash	API- Part II Vol 2 App 2.2.3	0.01% to 50 %
		Acid insoluble ash	API- Part II Vol 2 App 2.2.4	0.01% to 10 %
		Acid value	API- Part II Vol 2 App 3.12	0.05 to 25
		Iodine value	API- Part II Vol 2 App 3.11	5 to 200
		Saponification value	API- Part II Vol 2 App 3.10	1.0 to 325
		Alcohol soluble	API- Part II Vol 2 App 2.2.7	0.1% to 50 %

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		extractives		
		Water soluble Extractives	API- Part II Vol 2 App 2.2.8	0.1% to 50 %
		Total Solids	API- Part II Vol 2 App 3.9	1 % to 100 %
		Reducing & Non reducing sugars	API-Part II Vol 2 App 5.13.2	0.5 % to 80 %
		Loss on drying	API-Part II Vol 2 App 2.2.10	0.1% to 50 %
		pH	API- Part II Vol 2 App 3.3	1 to 14
		Specific gravity @ 25°C	API- Part II Vol 2 App 3.2	0.700 to 1.300
		Peroxide Value	IS 548 Part -1:56	0.2 meq/Kg to 20 meq/Kg
		<b>Trace metal Elements (Heavy Metals) :</b>		
		Aluminium (as Al)	MOA/ICP-OES/01,REV NO:01 DATED:15.03.2017, Rev No:01 Dated:15.03.2017	0.05 mg/kg to 100 mg/kg
		Arsenic (as As)		0.05 mg/kg to 100 mg/kg
		Boron (as B)		0.05 mg/kg to 100 mg/kg
		Cadmium(as Cd)		0.05 mg/kg to 100 mg/kg
		Cobalt (as Co)		0.05 mg/kg to 100 mg/kg
		Chromium (as Cr)		0.05 mg/kg to 100 mg/kg
		Copper (as Cu)		0.05 mg/kg to 100 mg/kg
		Iron (as Fe)		0.05 mg/kg to 100 mg/kg
		Mercury (as Hg)		0.05 mg/kg to 100 mg/kg
		Magnesium (as Mg)		0.05 mg/kg to 100 mg/kg
		Manganese (as Mn)		0.05 mg/kg to 100 mg/kg
		Nickel (as Ni)		0.05 mg/kg to 100 mg/kg
		Lead (as Pb)		0.05 mg/kg to 100 mg/kg
		Selenium (as Se)		0.05 mg/kg to 100 mg/kg
		Tin(as Sn)	0.05 mg/kg to 100 mg/kg	
		Titanium (as Ti)	0.05 mg/kg to 100 mg/kg	
		Vanadium(as V)	0.05 mg/kg to 100 mg/kg	
		Zinc(as Zn)	0.05 mg/kg to 100 mg/kg	
		<b>Mycotoxin :</b>		
		Aflatoxin B1	MOA/HPLC/15, Rev No:01 Dated:10.09.2016	1.5µg/kg to 100000µg/kg
		Aflatoxin B2		0.5µg/kg to 100000µg/kg
		Aflatoxin G1		1.5µg/kg to 100000µg/kg
		Aflatoxin G2		0.5µg/kg to 100000µg/kg
		<b>Pesticide Residues -Organochlorine:</b>		

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		Aldrin	MOA/GC/01, Rev No:01 Dated:15.03.2017	10 µg/kg to 50000 µg/kg
		4,4'-DDD		10 µg/kg to 50000 µg/kg
		4,4'-DDE		10 µg/kg to 50000 µg/kg
		4,4'-DDT		10 µg/kg to 50000 µg/kg
		Dieldrin		10 µg/kg to 50000 µg/kg
		Alpha Endosulfan		10 µg/kg to 50000 µg/kg
		Beta Endosulfan		10 µg/kg to 50000 µg/kg
		Endosulfan sulfate		10 µg/kg to 50000 µg/kg
		Endrin		10 µg/kg to 50000 µg/kg
		Endrin aldehyde		10 µg/kg to 50000 µg/kg
		Alpha- BHC		10 µg/kg to 50000 µg/kg
		Beta-BHC		10 µg/kg to 50000 µg/kg
		Gamma-BHC		10 µg/kg to 50000 µg/kg
		Delta -BHC		10 µg/kg to 50000 µg/kg
		Heptachlor		10 µg/kg to 50000 µg/kg
		Heptachlor epoxide		10 µg/kg to 50000 µg/kg
		<b>Pesticide Residues -Organo Phosphorous:</b>		
		Ethion	MOA/GC/01, Rev No:01 Dated:15.03.2017	50 µg/kg to 50000 µg/kg
		Methyl parathion		50 µg/kg to 50000 µg/kg
		Malathion		50 µg/kg to 50000 µg/kg
		Parathion		50 µg/kg to 50000 µg/kg
		Dichlorvos		50 µg/kg to 50000 µg/kg
		Chlorpyrifos Methyl		50 µg/kg to 50000 µg/kg
		Acephate		50 µg/kg to 50000 µg/kg
		Monocrotophos		50 µg/kg to 50000 µg/kg
		Chlorfevinfos		50 µg/kg to 50000 µg/kg
		Profenofos		50 µg/kg to 50000 µg/kg
		Phosalone		50 µg/kg to 50000 µg/kg
		Dimethoate		50 µg/kg to 50000 µg/kg
		Triazophos		50 µg/kg to 50000 µg/kg
		Quinalphos		50 µg/kg to 50000 µg/kg
		Formothion		50 µg/kg to 50000 µg/kg
		Aldrin		50 µg/kg to 50000 µg/kg
		<b>Pesticide Residues :</b>		

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		Alpha-chlordane	MOA/GC MSMS/01,ISSUE NO :01 DATED: 16.01.2017 , Issue No :01 Dated: 16.01.2017	20 µg/kg to 50000 µg/kg
		BHC-alpha		20 µg/kg to 50000 µg/kg
		BHC-beta		20 µg/kg to 50000 µg/kg
		BHC-gamma		20 µg/kg to 50000 µg/kg
		Bromopropylate		20 µg/kg to 50000 µg/kg
		Cypermethrin		20 µg/kg to 50000 µg/kg
		DDE-p,p'		20 µg/kg to 50000 µg/kg
		DDT-o,p'		20 µg/kg to 50000 µg/kg
		DDT-p,p'		20 µg/kg to 50000 µg/kg
		Deltamethrin		20 µg/kg to 50000 µg/kg
		Dieldrin		20 µg/kg to 50000 µg/kg
		Endosulfan I		20 µg/kg to 50000 µg/kg
		Endosulfan II		20 µg/kg to 50000 µg/kg
		Endosulfan sulfate		20 µg/kg to 50000 µg/kg
		Endrin		20 µg/kg to 50000 µg/kg
		Fenitrothion		20 µg/kg to 50000 µg/kg
		Fenvalerate		20 µg/kg to 50000 µg/kg
		Fonofos		20 µg/kg to 50000 µg/kg
		Gamma-chlordane		20 µg/kg to 50000 µg/kg
		Heptachlor		20 µg/kg to 50000 µg/kg
		Heptachlor epoxide-B		20 µg/kg to 50000 µg/kg
		Hexachlorobenzene		20 µg/kg to 50000 µg/kg
		Parathion-methyl		20 µg/kg to 50000 µg/kg
		Pentachloroaniline		20 µg/kg to 50000 µg/kg
		Permethrin I		20 µg/kg to 50000 µg/kg
		Quintozene		20 µg/kg to 50000 µg/kg
		Alachlor		20 µg/kg to 50000 µg/kg
		Azinophos Methyl		20 µg/kg to 50000 µg/kg
		Chlorfenvinphos		20 µg/kg to 50000 µg/kg
		Chlorpyrifos		20 µg/kg to 50000 µg/kg
		Chlorpyrifos-methyl		20 µg/kg to 50000 µg/kg
		Diazinon		20 µg/kg to 50000 µg/kg
		Dichlorvos		20 µg/kg to 50000 µg/kg
		Ethion		20 µg/kg to 50000 µg/kg

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		Malathion		20 µg/kg to 50000 µg/kg
		Methidathion		20 µg/kg to 50000 µg/kg
		Parathion		20 µg/kg to 50000 µg/kg
		Phosalone		20 µg/kg to 50000 µg/kg
		Piperonyl butoxide		20 µg/kg to 50000 µg/kg
		Pyrethrins		20 µg/kg to 50000 µg/kg
<b>II.</b>	<b>COSMETICS &amp; ESSENTIAL OILS</b>			
<b>1.</b>	<b>Fragrances, Perfumes &amp; Indian attars, Cosmetics &amp; Toiletries, Toilet soap Bathing bar, Herbal based Cosmetics</b>	Total Fatty matter	IS: 286 / IS 13498	1% to 90%
		Free Caustic Alkali as NaOH	IS: 286	0.008% to 5.0%
		Matter Insoluble in Alcohol	IS: 286	0.1% to 20 %
		Salt as NaCl	IS: 286	0.1% to 20 %
		Alcohol content at 15°C /15°C	IS:8482	0.5% to 100 %
		Moisture & volatile matter	IS: 286	0.1% to 50 %
		pH	IS:6608 Annex B	1to 14
		Total Fatty Substance	IS:6608 Annex C	0.1% to 50 %
		Total Residue	IS:6608 Annex D	0.1% to 95 %
		Synthetic surface active agent	IS 13498	1 % to 50%
		Non volatile alcohol soluble matter	IS 7884	1% to 50%
		Acid value	IS 7123	0.5 to 30
		Peroxide value	IS 7123	0.2 meq/kg to 20meq/kg
		<b>Trace Metal Elements :</b>		
	Aluminium (as Al)	MOA/ICP-OES/01,REV NO:01 DATED:15.03.2017, Rev No:01 Dated:15.03.2017	0.05 mg/kg to 100 mg/kg	
	Arsenic (as As)		0.05 mg/kg to 100 mg/kg	
	Boron (as B)		0.05 mg/kg to 100 mg/kg	
	Cadmium(as Cd)		0.05 mg/kg to 100 mg/kg	
	Cobalt (as Co)		0.05 mg/kg to 100 mg/kg	
	Chromium (as Cr)		0.05 mg/kg to 100 mg/kg	



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		Copper (as Cu)		0.05 mg/kg to 100 mg/kg
		Iron (as Fe)		0.05 mg/kg to 100 mg/kg
		Mercury (as Hg)		0.05 mg/kg to 100 mg/kg
		Magnesium (as Mg)		0.05 mg/kg to 100 mg/kg
		Manganese (as Mn)		0.05 mg/kg to 100 mg/kg
		Nickel (as Ni)		0.05 mg/kg to 100 mg/kg
		Lead (as Pb)		0.05 mg/kg to 100 mg/kg
		Selenium (as Se)		0.05 mg/kg to 100 mg/kg
		Tin(as Sn)		0.05 mg/kg to 100 mg/kg
		Titanium (as Ti)		0.05 mg/kg to 100 mg/kg
		Vanadium(as V)		0.05 mg/kg to 100 mg/kg
		Zinc(as Zn)		0.05 mg/kg to 100 mg/kg
		<b>Mycotoxin :</b>		
		Aflatoxin B1	MOA/HPLC/15	1.5µg/kg to 100000µg/kg
		Aflatoxin B2		0.5µg/kg to 100000µg/kg
		Aflatoxin G1		1.5µg/kg to 100000µg/kg
		Aflatoxin G2		0.5µg/kg to 100000µg/kg
		<b>Pesticide Residues - Organochlorine</b>		
		Aldrin	MOA/GC/01	10 µg/kg to 50000 µg/kg
		4,4'-DDD		10 µg/kg to 50000 µg/kg
		4,4'-DDE		10 µg/kg to 50000 µg/kg
		4,4'-DDT		10 µg/kg to 50000 µg/kg
		Dieldrin		10 µg/kg to 50000 µg/kg
		Alpha Endosulfan		10 µg/kg to 50000 µg/kg
		Beta Endosulfan		10 µg/kg to 50000 µg/kg
		Endosulfan sulfate		10 µg/kg to 50000 µg/kg
		Endrin		10 µg/kg to 50000 µg/kg
		Endrin aldehyde		10 µg/kg to 50000 µg/kg
		Alpha- BHC		10 µg/kg to 50000 µg/kg
		Beta-BHC		10 µg/kg to 50000 µg/kg
		Gamma-BHC		10 µg/kg to 50000 µg/kg
		Delta -BHC		10 µg/kg to 50000 µg/kg
		Heptachlor		10 µg/kg to 50000 µg/kg

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		Heptachlor epoxide		10 µg/kg to 50000 µg/kg
		<b>Pesticide Residues -Organophosphorus</b>		
		Ethion	MOA/GC/01	50 µg/kg to 50000 µg/kg
		Methyl parathion		50 µg/kg to 50000 µg/kg
		Malathion		50 µg/kg to 50000 µg/kg
		Parathion		50 µg/kg to 50000 µg/kg
		Dichlorvos		50 µg/kg to 50000 µg/kg
		Chlorpyrifos Methyl		50 µg/kg to 50000 µg/kg
		Acephate		50 µg/kg to 50000 µg/kg
		Monocrotophos		50 µg/kg to 50000 µg/kg
		Chlorfevinfos		50 µg/kg to 50000 µg/kg
		Profenofos		50 µg/kg to 50000 µg/kg
		Phosalone		50 µg/kg to 50000 µg/kg
		Dimethoate		50 µg/kg to 50000 µg/kg
		Triazophos		50 µg/kg to 50000 µg/kg
		Quinalphos		50 µg/kg to 50000 µg/kg
		Formothion		50 µg/kg to 50000 µg/kg
		Pirimiphos Methyl		50 µg/kg to 50000 µg/kg
		Iprobenphos		50 µg/kg to 50000 µg/kg
<b>III.</b>	<b>FOOD &amp; AGRICULTURAL PRODUCTS</b>			
<b>1.</b>	<b>Bakery &amp; Confectionary Snacks, Sweets and related products</b>	Moisture	IS 12711	0.1 % to 50%
		Total Ash		0.1% to 20%
		Acid insoluble Ash/ Ash insoluble in dilute HCl		0.03% to 5%
		Total solids		0.5% to 95%
		Total Fat		0.1% to 95%
		Acidity of Extracted fat (as Oleic acid)		0.1% to 10%
		pH of the Aqueous extract	IS 12711	1 to 14
		Alcoholic acidity (as H <sub>2</sub> SO <sub>4</sub> ) with 90%	IS 12711	0.02% to 5%

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		alcohol		
		Crude Fibre	IS 12711	0.5% to 20%
		Peroxide value	IS 12711	0.2 meq/kg to 20 meq/kg
		Protein	MOA/CH/N	0.5% to 50%
		Carbohydrates (by Difference method)	IS 1656	1% to 95%
		Sugar	AOAC 20 <sup>th</sup> Edition 930.36,923.09,931.02	1% to 80%
		Calcium (as Ca)	AOAC 20 <sup>th</sup> Edition 927.02	25 mg/100 g to 1000 mg/100g
		Iron (as Fe)	AOAC 20 <sup>th</sup> Edition 944.02	5 mg/100g to 100 mg/100g
		Energy value	MOA/CH-BK/15	(10 K calto 900 K cal)/100 g
		Sodium	IS: 9497	5 mg/100 g to 5000 mg/100 g
		Potassium	IS: 9497	5 mg/100 g to 5000 mg/100 g
<b>2.</b>	<b>Beverages</b>			
<b>a.</b>	<b>Alcoholic Beverages Toddy ,Beer, Brandy,Whisky, Gin,Vodka,Wine, Rum etc.</b>	Alcohol Content at 15.56°C/15.56°C	IS 3752	0.5% to 100 %
		Residue on Evaporation	IS 3752	0.05% to 30 %
		Identification Test for Starch	IP 2014 Page No 2544	Qualitative test
		Volatile Acidity as Acetic Acid (in terms of g/100 litre of absolute Alcohol)	IS 3752	2 g/100 L to 500 g/100 L
		Esters as Ethyl Acetate (in terms of g/100 litre of absolute Alcohol)	IS 3752	5 g/100 L to 500g/100 L
		Higher Alcohol as Amyl Alcohol (in terms of g/100 litre of absolute Alcohol)	IS 3752	0.1g/100 L to 500g/100 L
		Aldehydes as	IS 3752	0.5 g/100 L to 500g/100 L

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		Acetaldehyde (in terms of g/100 litre of absolute Alcohol)		
		Furfural (in terms of g/100 litre of absolute Alcohol)	IS 3752	0.1 g/100L to 500 g/100L
		Methyl Alcohol (in terms of g/100 litre of absolute Alcohol)	IS 3752	1 g/100L to 500 g/100 L
		Total acidity (as tartaric acid)	IS 3752	1 g/100L to 10000g/100 L
		Chloral hydrate	MOA/CH-AL/11	Qualitative test
b.	Non Alcoholic Beverages	Brix (Total soluble solids)	FSSAI Manual on Fruit & Vegetables	1% to 30%
		pH	FSSAI Manual on Fruit & Vegetables	1 to 14
3.	Cereals, Pulses & Cereal Products Cereals, Pulses & Flours, Any edible food grains whole, split or ground, Raw and processed flour and flour based product, Rice & Rice based products, Processed cereal based Complementary foods, Pappad, Noodles	<b>Physical Examination (Refractions)</b>		
		Foreign matter (Extraneous matter)	IS 4333 (Part-1)	0.05% to 50%
		Mineral matter		0.05% to 50%
		Impurities of animal origin		0.05% to 50%
		Other edible grains		0.05% to 50%
		Damaged grains		0.05% to 50%
		Weevilled grains/ Insect damaged		0.05% to 50%
		Other food grains		0.05% to 50%
		Fragents		0.05% to 50%
		Broken		0.05% to 50%
		Slightly damaged or touched		0.05% to 50%
		Chalky (in case of Rice)		0.05% to 50%
		Red grains		0.05% to 50%
		Kernels with husk		0.05% to 50%
	Shrivelled or immature		0.05% to 50%	

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		Verietal admixture		0.05% to 50%
		Calcium	AOAC 20 <sup>th</sup> Edition 927.02	25 to 10000mg/100g
		Moisture	IS 1155	0.1% to 80%
			AOAC 20 <sup>th</sup> Edition 925.10	0.02% to 50%
		Alcoholic Acidity (as H <sub>2</sub> SO <sub>4</sub> )	IS 1155	1 ml/100g to 20 ml/100g
		Total Ash	IS 1155 /AOAC 20th Edition 923.03	0.1% to 20%
		Acid Insoluble Ash	IS 1155 /AOAC 20th Edition 941.12B	0.03% to 5%
		Iron (as Fe)	AOAC 20th Edition 944.02	5 mg/kg to 1000 mg/kg
		Carbohydrates (By difference method)	IS 1656	1% to 95%
		Total Fat	AOAC 20th Edition 922.06	0.1% to 95%
		Protein/Nitrogen	MOA/CH/N	0.5% to 50%
		Gluten	IS 1155	0.05% to 50%
		Energy value	MOA/CH-FG/14	10 k cal to 900 k cal/ 100g
		Sodium	IS 9497	5 mg/100g to 5000 mg/100 g
		Potassium	IS 9497	5 mg/100 g to 5000 mg/100 g
		Sugar	AOAC 20 <sup>th</sup> Edition 930.36, 923.09, 931.02	1% to 80%
		Uric Acid	MOA/HPLC/05 ,REV NO:01 DATED:10.09.2016	5 mg/kg to 1000 mg/kg
		Crude Fibre	IS 1155	0.5% to 20%
<b>4.</b>	<b>Coconut &amp; Coconut products Copra &amp; related products, Grated desiccated coconut</b>	<b>Physical Examination (Refractions)</b>		
		Extraneous vegetable matter	IS 4333 (Part-1)	0.05% to 60%
		Moisture	AOAC 20 <sup>th</sup> Edition 925.40	0.1% to 50%
		Fat Oil content	AOAC 20 <sup>th</sup> Edition 948.22	0.1% to 70%
		Acidity of Extracted fat (as Oleic, Lauric Acid)	AOAC 20 <sup>th</sup> Edition 940.28	0.01% to 30%

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		Protein	MOA/CH/N	0.5% to 80%
		Ash	AOAC 20 <sup>th</sup> Edition 950.49	0.1% to 20%
		Carbohydrates (by Difference method)	IS 1656	1% to 95%
		Energy value	MOA/CH-OF/22	(10 k cal to 900 k cal) /100 g
		Peroxide value (of Extracted fat)	IS 548 (Part-1)	0.2 meq/kg to 20 meq/kg
		Sodium	IS 9497	(5mg to5000 mg)/100g
		Potassium	IS 9497	(5mg to5000 mg)/100g
		Iron	AOAC 20 <sup>th</sup> Edition 944.02	(1mg to1000 mg)/100g
		Calcium	AOAC 20 <sup>th</sup> Edition 927.02	25 mg/100g to 5000 mg/100g
		Sugar	AOAC 20 <sup>th</sup> Edition 930.36, 923.09, 931.02	1% to 30%
<b>5.</b>	<b>Edible Oil &amp; Fat</b>	Refractive Index at 40°C/ Butyro Refractometer reading at 40°C	IS 548(Part-1)	1.4220 to 1.4895
	<b>Coconut oil</b>	Saponification value	IS 548(Part-1)	100 to 325
	<b>Mustard oil</b>	Iodine value	IS 548(Part-1)	5 to 200
	<b>Gingerly oil,</b>	Acid value	IS 548(Part-1)	0.02 to 25
	<b>Groundnut oil,</b>	Free fatty acid (as Oleic acid, Lauric acid, Palmitic acid)	IS 548(Part-1)	0.01% to 25%
	<b>Sunflower oil,</b>	Unsaponifiable matter	IS 548(Part-1)	0.05% to 5%
	<b>Soya bean oil,</b>	Insoluble impurities	IS 548(Part-1)	0.01% to 10%
	<b>Palm oil,</b>	Bellier test	IS 548 (Part-2)	10°C to 50°C
	<b>Palmolein,</b>	Polenske value	IS 548(Part-1)	1 to 25
	<b>Palmkernal oil,</b>	Moisture and Other Volatile matter	IS 548(Part-1)	0.01% to 15%
	<b>Rice bran oil</b>	Peroxide value	IS 548(Part-1)	0.2meq/kg to 20meq/kg
	<b>Fish oil</b>	Specific Gravity at 30°C/30°C	IS 548 (Part-1)	0.7000 to 1.2000
	<b>Vegetable oil</b>	Rancidity test	MOA/CH-OF/12	Qualitative test
	<b>Cotton seed oil</b>			
	<b>Almond oil,</b>			
	<b>Olive Oil,</b>			
	<b>Vegetable Fat,</b>			
	<b>Margarine,</b>			
	<b>Blended</b>			

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	vegetable oil	Energy value	MOA/CH-OF/22	10 k cal to 900 k cal/100g
		Carbohydrates (by difference method)	IS 1656	1% to 10 %
		Sodium	IS: 9497	1 mg/100 g to 5000 mg/100g
		Potassium	IS: 9497	5 mg/100g to 5000 mg/100g
		Fat Content	AOAC 20 <sup>th</sup> Edition Chapter 40 - 948.22	15% to 100 %
		Protein Content	MOA/CH/N	0.1% to 10 %
		<b>Adulteration tests :</b>		
		Castor oil in Coconut oil, Rice bran oil, Sunflower oil	IS 548 (Part-2)	Qualitative (Present or Absent) (Sensitivity min 1%)
		Cotton seed oil in Coconut oil, Rice bran oil, Sunflower oil	IS 548 (Part-2)	Qualitative (Present or Absent) (Sensitivity min 0.5%)
		Sesame oil in Coconut oil, Rice bran oil, Sunflower oil	IS 548 (Part-2)	Qualitative (Present or Absent) (Sensitivity min 0.2 %)
		Argemone oil in All edible oils	IS 548 (Part-2)	Qualitative (Present or Absent) (Sensitivity min 50 mg/kg)
		Mineral oil in All edible oils	IS 548 (Part-2)	Qualitative (Present or Absent) (Sensitivity min 1%)
		Linseed oil in Coconut oil, Rice bran oil, Sunflower oil	IS 548 (Part-2)	Qualitative (Present or Absent)
6.	<b>Food Additives &amp; Preservatives : Fruit &amp; fruit products, Vegetable &amp;</b>	Sodium Benzoate/ Benzoic acid	AOAC 20 <sup>th</sup> Edition 994.11 MOA/HPLC/02	5 mg/kg to 2000 mg/kg
		Sulphur Dioxide as SO <sub>2</sub>	ASTA 4 <sup>th</sup> Edition Method 30.0	10 mg/kg to 2000 mg/kg

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	vegetable products, Spices & Condiments, Fat & oils, Oilseeds, Jaggery, Sugar, Synthetic beverages, Bakery & Confectionary products, Alcoholic beverages	Sorbic acid	AOAC 20 <sup>th</sup> Edition 994.11/ MOA/HPLC/02	5 mg/kg to 2000 mg/kg
7.		<b>Fruit &amp; Fruit Products Pickles, Fruit beverages, powder, flavor, Fruit bar/Toffee, Fruit Cocktails, Dehydrated Fruits, Dry fruits, Chutney, Processed Fruits</b>	<b>Physical Examination (Refractions) :</b>	
		Damaged/ Blemished units	IS 1797	0.1% to 50%
		Sugared raisins		0.1% to 50%
		Extraneous matter		0.1% to 50%
		Broken		0.1% to 50%
		Discoloured fruits		0.1% to 50%
		pH	IS 2860	1.0 to 14.0
		Salt as NaCl	MOA/CH-FV/15	0.1% to 25%
		Acidity (as Acetic acid/ Citric acid/ Tartaric acid)	IS 2860	0.1% to 20%
		Moisture/ Loss on Drying	AOAC 20 <sup>th</sup> Edition 934.06/ FSSAI Manual on Fruit & Vegetables	0.5% to 95%
		Energy value	MOA/CH-FV/17	10 k cal to 900 k cal/100g
		Carbohydrates (by difference method)	IS 1656	1% to 99 %
		Sodium	IS 9497	5 mg/100 g to 5000 mg/100g
		Potassium	IS 9497	5 mg/100 g to 5000



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				mg/100g
		Total Soluble solids	FSSAI Manual on Fruit & Vegetables	1% to 95%
		Ash	AOAC 20 <sup>th</sup> Edition 940.26/ FSSAI Manual on Fruit & Vegetables	0.1% to 20%
		Iron	AOAC 20 <sup>th</sup> Edition 944.02	(1 mg to 1000 mg)/100g
		Calcium	AOAC 20 <sup>th</sup> Edition 927.02	(25 mg to 1000mg)/100g
		Sugar	AOAC 20 <sup>th</sup> Edition 930.36, 923.09, 931.02	1% to 80%
		Acid insoluble ash	FSSAI Manual on Fruit & Vegetables	0.05% to 5%
		Fat Content	AOAC 20 <sup>th</sup> Edition 2003.06	0.1% to 30 %
		Protein Content	MOA/CH/N	0.1% to 30%
<b>8.</b>	<b>Herbs, Spices &amp; Condiments Whole Spices, Spices mix, Masalas, Seasoning, Herbs &amp; Spices related products, Oleoresins</b>	<b>Physical Examinations :</b>		
		Extraneous Matter	IS-1797	0.05% to 50%
		Insect Damaged matter		0.05% to 50%
		Immature & shriveled		0.05% to 50%
		Broken		0.05% to 50%
		Damaged/ Discoloured fruits		0.05% to 50%
		Moisture	IS 1797/ASTA 4 <sup>th</sup> Edition Method 2.0	1.0% to 50%
		Extraneous. Matter	IS 1797	0.5% to 30%
		Light berries	ASTA 4 <sup>th</sup> Edn -Method14.2	1% to 35%
		Crude fiber	IS 1797	1% to 50%
		Salt as NaCl	IS 1797	0.1% to 50 %
		Total ash	IS 1797/ ASTA 4 <sup>th</sup> Edition Method 3.0	0.5% to 50%
		Acid insoluble ash	IS 1797/ ASTA 4 <sup>th</sup> Edition Method 4.0	0.01% to 10%
		Chromate test in turmeric	IS 3576 Annex A	Qualitative (Present or Absent)
		Starch	IS 4706 (Part-2)	1% to 80%

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		Non-volatile ether extract	IS 1797	0.1% to 50%
		Volatile oil	IS-1797/ ASTA 4 <sup>th</sup> Edition Method: 5.0	0.1% to 10%
		Curcumin	ASTA 4 <sup>th</sup> Edn- Method 18.0	0.2% to 95%
		Piperine	ASTA 4 <sup>th</sup> Edn- Method 12.1	0.2% to 95%
		Added Starch in Turmeric	FSSAI Manual on Spices & Condiments / MOA/CH-SP/04 by Microscopic	Qualitative (Present or Absent)
		Mineral oil in pepper	IS: 548 (P-2) / FSSAI Manual on Spices & Condiments	Qualitative (Present or Absent)
		Protein	MOA/CH/N	0.5% to 30%
		Alcohol extract	IS 1797/ ASTA 4 <sup>th</sup> Edition Method 9.0	0.1% to 50%
		Cold water soluble extract	IS 1797	0.1% to 50%
		Pungency/ Scoville heat unit	ASTA 4 <sup>th</sup> Edition; Method 21.3 / MOA/HPLC/01	1600 SHU to 800000 SHU
		Capsaicin		0.01% to 50%
		Energy value	MOA/CH-SP/02	10 k cal to 900 k cal /100 g
		Carbohydrates (by difference method)	IS 1656	1% to 99%
		Sodium	IS 9497	(5mg to 5000mg)/100g
		Fat Content	IS 1797	0.1% to 50%
		Colour Value	ASTA 4 <sup>th</sup> Edn-Method 20.1	10 ASTA to 10000 ASTA
		Sugar	AOAC 20 <sup>th</sup> Edition; 930.36, 923.09, 931.02	1% to 80%
		Alcoholic extract (with 90% alcohol)	IS 7807	0.5% to 25%
		Potassium	IS 9497	5 mg/100 g to 5000 mg/100g
		Calcium	AOAC 20 <sup>th</sup> Edition; 927.02	25 mg/100 g to 5000 mg/100g

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9.	<b>Jams, Juices, Sauces &amp; Concentrates</b>	pH	IS 2860	1.0 to 14.0
		Salt as NaCl	MOA/CH-FV/15	0.1% to 25%
		Acidity (as Acetic acid/ Citric acid)	IS 2860	0.1% to 20%
		Moisture	AOAC 20 <sup>th</sup> Edition; 934.06/ FSSAI Manual on Fruit & Vegetables	0.5% to 95%
		Energy value	MOA/CH-FV/17	10 k cal to 900 kcal/100g
		Carbohydrates (by difference method)	IS 1656	1% to 99 %
		Sodium	IS 9497	5 to 5000 mg/100g
		Potassium	IS 9497	5 to 5000 mg/100g
		Ash	AOAC 20 <sup>th</sup> Edition; 940.26/ FSSAI Manual on Fruit & Vegetables	0.1% to 20%
		Iron	AOAC 20 <sup>th</sup> Edition; 944.02	(1mg to 1000mg)/100g
		Calcium	AOAC 20 <sup>th</sup> Edition; 927.02	(100 mg to 1000mg)/100g
		Sugar	AOAC 20 <sup>th</sup> Edition; 930.36, 923.09, 931.02	1% to 80%
		Acid insoluble ash	FSSAI Manual on Fruit & Vegetables	0.05% to 5 %
		Fat Content	AOAC 20 <sup>th</sup> Edition; 2003.06	0.1% to 30 %
Protein Content	MOA/CH/N	0.1% to 30%		
Total Soluble Solids	FSSAI Manual on Fruit & Vegetables	1% to 95%		
10.	<b>Milk &amp; Dairy Products : Milk and related products, Peda, Ice cream, Frozen dessert, Yogurt, Paneer, Cheese, Curd, Buttermilk</b>	Total Protein (N x 6.38, 6.25)	MOA/CH/N	1% to 50 %
		Moisture	AOAC 20 <sup>th</sup> Edition; 990.20	1% to 95%
			AOAC 20 <sup>th</sup> Edition; 927.05	0.1% to 95%
			IS 3507	0.1% to 95%
		Total ash	AOAC 20 <sup>th</sup> Edition; 945.46	1% to 50%
		Total Solids	AOAC 20 <sup>th</sup> Edition; 990.20	0.5% to 95%
Solid Non Fat	AOAC 20 <sup>th</sup> Edition; 990.21	0.1% to 100%		

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	<b>etc., Milk Powder, Butter, Ghee, Creams</b>		IS 11623	0.1% to 100%
			AOAC 20 <sup>th</sup> Edition; 990.21	0.1% to 100%
		Total fat	AOAC 20 <sup>th</sup> Edition ;989.05	0.1% to 95%
			IS 11721	0.1% to 95%
			IS 3507	0.1% to 95%
		Titrateable acidity	IS 11766	0.1% to 15%
		Salt in Butter	IS 3507	0.1% to 25%
		Curd in Butter	IS 3507	0.1% to 10%
		Reichert-Meissel value	IS 548 (Part-1)	10 to 50
		Free Fatty Acid as Oleic acid	IS 548 (Part-1)	0.05 to 25
		Butyro Refractometer reading at 40°C	IS 548 (Part-1)	10 to 50
		Presence of Sesame oil (Boudouin test)	IS 548 (Part-1)	Qualitative (Present or Absent)
		Sugar	AOAC 20 <sup>th</sup> Edition-930.36, 923.09, 931.02	1% to 80%
		Energy value	MOA/CH-M/23	(10 k cal to 900 k cal)/ 100 g
		Carbohydrates (by difference method)	IS 1656	1% to 99 %
		Sodium	IS 9497	5 mg/100 g to 5000 mg/100g
		Iron	AOAC 20 <sup>th</sup> Edition 944.02	1 mg/100 g to 1000 mg/100g
		Calcium	AOAC 20 <sup>th</sup> Edition 927.02	100 mg/100g to 1000mg/100g
		Potassium	IS 9497	5 mg/100 g to 5000 mg/100 g
		Polenske value	IS 548 (Part-1)	1 to 10
		<b>Preservatives</b>		
		Formaldehyde	IS 1479 (Part-1)	Qualitative (Present or Absent)

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		Hydrogen peroxide	IS 1479 (Part-1)	Qualitative (Present or Absent)
		<b>Neutralizers</b>		
		Carbonates	IS 1479 (Part-1)	Qualitative (Present or Absent)
		<b>Adulterants</b>		
		Starch	FSSAI Manual on Milk & Milk products	Qualitative (Present or Absent)
		Cane Sugar		Qualitative (Present or Absent)
		Maltodextrin	IS 1479 (Part-1)	Qualitative (Present or Absent)
		Cellulose	FSSAI Manual on Milk & Milk products	Qualitative (Present or Absent)
		Glucose/ Dextrose		Qualitative (Present or Absent)
		Sulphate		Qualitative (Present or Absent)
		Nitrate		Qualitative (Present or Absent)
		Boric acid		Qualitative (Present or Absent)
		Foreign fat		Qualitative (Present or Absent)
		Anionic detergent		Qualitative (Present or Absent)
11.	<b>Nut &amp; Nut Products : Cashewnut, Groundnut, Almond, Pista, Dry nuts</b>	<b>Physical Examination (Refractions)</b>		
		Extraneous Matter	IS 4333 (Part-1)	0.05% to 50%
		Damaged/ Discoloured units		0.05% to 50%
		Extraneous matter		0.05% to 50%
		Empty shells		0.05% to 50%
		Unopened shells		0.05% to 50%
		Mouldy shell		0.05% to 50%

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		Moisture	AOAC 20 <sup>th</sup> Edition 925.40	0.1% to 20%
		Fat/ Oil	AOAC 20 <sup>th</sup> Edition 948.22	0.1% to 70%
		Acidity of Extracted fat (as Oleic acid,Lauric Acid)/Free Fatty acid	AOAC 20 <sup>th</sup> Edition 940.28	0.01% to 30%
		Protein	MOA/CH/N	0.5% to 50%
		Crude Fiber	IS 10226 (Part-1)	0.05% to 10%
		Ash	AOAC 20 <sup>th</sup> Edition 950.49	0.1% to 10%
		Carbohydrates (by Difference method)	IS 1656	1% to 95%
		Energy value	MOA/CH-N/02	10 k cal to 900 kcal/100g
		Peroxide value	IS 548 (Part-1)	0.01 meq/Kg to 10 meq/Kg of Extracted fat
		Sodium	IS 9497	5 mg/100g to 5000 mg/100g
		Iron	AOAC 20 <sup>th</sup> Edition 944.02	1 mg/100g to 1000 mg/100g
		Calcium	AOAC 20 <sup>th</sup> Edition 927.02	25 mg/100g to 1000 mg/100g
		Potassium	IS: 9497	5 mg/100g to 5000 mg/100g
		Sugar	AOAC 20 <sup>th</sup> Edition 930.36, 923.09, 931.02	1% to 25%
12.	Tea Tea, Instant Tea, Green Tea, Flavoured Tea, Masala Tea	Loss in mass at 103°C	IS 13853	1.0% to 15 %
		Total ash	IS 13854	0.5% to 15 %
		Water soluble ash of Total Ash	IS 13855	10% to 80 %
		Acid insoluble ash	IS 13857	0.05% to 5 %
		Alkalinity of water soluble ash as K <sub>2</sub> O/KOH	IS 13856	0.5% to 5 %
		Water extract	IS 13862	10% to 60 %
		Crude fiber	IS 10226(Part-1)/IS 16041	5% to 30 %
		Iron fillings	IS-3633,Annx-C	4 mg/kg to 1000 mg/kg

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		Caffeine	MOA/HPLC/03 (by HPLC)	10 mg/kg to 50000 mg/kg
13.	<b>Vegetable &amp; Vegetable products Pickles, pulp, puree, powder, flavor, Vegetable cocktails, Dehydrated vegetables, Chutney, Processed vegetables.</b>	pH	IS 2860	1.0 to 14.0
		Salt as NaCl	MOA/CH-FV/15	0.1% to 25%
		Acidity (as Acetic acid/ Citric acid)	IS 2860	0.1% to 20%
		Moisture	AOAC 20 <sup>th</sup> Edition, 934.06/ FSSAI Manual on Fruit & Vegetables	0.5% to 95%
		Energy value	MOA/CH-FV/17	(10 k cal to 900 k cal) /100 g
		Carbohydrates (by difference method)	IS:1656	1% to 99 %
		Total Soluble solids	FSSAI Manual on Fruit & Vegetables	1% to 95%
		Ash	AOAC 20 <sup>th</sup> Edition 940.26/ FSSAI Manual on Fruit & Vegetables	0.1% to 20%
		Sugar	AOAC 20 <sup>th</sup> Edition 930.36, 923.09, 931.02	1% to 80%
		Acid insoluble ash	FSSAI Manual on Fruit & Vegetables	0.05% to 5 %
		Fat Content	AOAC 20 <sup>th</sup> Edition 2003.06	0.1% to 30 %
		Protein Content	MOA/CH/N	0.1% to 30%
14.	<b>Vitamins in Food (Fruit &amp; fruit products, Vegetable &amp; Vegetable products, Spices &amp; Condiments, Cereals &amp; cereal products, Bakery products)</b>	Vitamin C	AOAC 20 <sup>th</sup> Edition 967.21	2 mg/100g to 1000 mg/ 100g

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<b>IV. PLASTIC &amp; RESINS</b>					
1.	<b>All Plastic and Polymer Products</b>	<b>Over All Migration</b>			
		-By using N-Heptane	IS 9845:1998 R-2015	0.1 mg/dm <sup>2</sup> to 20 mg/dm <sup>2</sup>	
		-By using 3% acetic acid		0.1 mg/dm <sup>2</sup> to 50 mg/dm <sup>2</sup>	
		- By using 10% ethyl alcohol		0.1 mg/dm <sup>2</sup> to 50 mg/dm <sup>2</sup>	
		- Distilled water		0.1 mg/dm <sup>2</sup> to 50 mg/dm <sup>2</sup>	
<b>V. POLLUTION &amp; ENVIRONMENT</b>					
1.	<b>Waste Water, Sewage water</b>	pH	IS 3025 (Part-11)	1 to14	
		Total Dissolved solids	IS 3025 (Part-16)	10 mg/l to 5000 mg/l	
		Total Dissolved oxygen	IS 3025 (Part-38)	0.2 mg/l to 10 mg/l	
		BOD at 27°C for 3 days	IS 3025(Part-44)	2 mg/l to 1000 mg/l	
		COD	APHA 23 <sup>rd</sup> Edition 5220B	4 mg/l to 1000 mg/l	
		Oil & Grease	APHA 23 <sup>rd</sup> Edition 5520D	4.0 mg/l to 1000 mg/l	
		Total Suspended solids	IS 3025 (Part-17)	10 mg/l to 1000 mg/l	
<b>VI. RESIDUES IN FOOD PRODUCTS</b>					
1.	<b>Food Products</b>	<b>Pesticide Residues -Organochlorine</b>			
a.		<b>Bakery &amp; Confectionary products</b>	Aldrin	MOA/GC/01 , Rev No:01 Dated:15.03.2017/ AOAC 20th Edition 970.52	0.01 mg/kg to 100 mg/kg
			4,4'-DDD		0.01 mg/kg to 100 mg/kg
			4,4'-DDE		0.01 mg/kg to 100 mg/kg
			4,4'-DDT		0.01 mg/kg to 100 mg/kg
			Dieldrin		0.01 mg/kg to 100 mg/kg
			Alpha Endosulfan		0.01 mg/kg to 100 mg/kg
			Beta Endosulfan		0.01 mg/kg to 100 mg/kg
			Endosulfan sulfate		0.01 mg/kg to 100 mg/kg
			Endrin		0.01 mg/kg to 100 mg/kg
			Endrin aldehyde		0.01 mg/kg to 100 mg/kg
	Alpha- BHC			0.01 mg/kg to 100 mg/kg	



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		Beta-BHC		0.01 mg/kg to 100 mg/kg
		Gamma-BHC		0.01 mg/kg to 100 mg/kg
		Delta -BHC		0.01 mg/kg to 100 mg/kg
		Heptachlor		0.01 mg/kg to 100 mg/kg
		Heptachlor epoxide		0.01 mg/kg to 100 mg/kg
		<b>Pesticide Residues- Organo Phosphorous</b>		
		Ethion	MOA/GC/01 , Rev No:01 Dated:15.03.2017/ AOAC 20th Edition 970.52	50 µg/kg to 50000 µg/kg
		Methyl parathion		50 µg/kg to 50000 µg/kg
		Malathion		50 µg/kg to 50000 µg/kg
		Parathion		50 µg/kg to 50000 µg/kg
		Dichlorvos		50 µg/kg to 50000 µg/kg
		Chlorpyrifos Methyl		50 µg/kg to 50000 µg/kg
		Acephate		50 µg/kg to 50000 µg/kg
		Monocrotophos		50 µg/kg to 50000 µg/kg
		Chlorfevinfos		50 µg/kg to 50000 µg/kg
		Profenofos		50 µg/kg to 50000 µg/kg
		Phosalone		50 µg/kg to 50000 µg/kg
		Dimethoate		50 µg/kg to 50000 µg/kg
		Triazophos		50 µg/kg to 50000 µg/kg
		Quinalphos		50 µg/kg to 50000 µg/kg
		Formothion		50 µg/kg to 50000 µg/kg
		Pirimiphos Methyl		50 µg/kg to 50000 µg/kg
		Iprobenphos		50 µg/kg to 50000 µg/kg
<b>b.</b>	<b>Cereals, Pulses &amp; Cereal products</b>	<b>Pesticide Residues-Organochlorine</b>		
		Aldrin	MOA/GC/01 , Rev No:01 Dated:15.03.2017/ AOAC 20 <sup>th</sup> Edition 970.52	10 µg/kg to 50000 µg/kg
		4,4'-DDD		10 µg/kg to 50000 µg/kg
		4,4'-DDE		10 µg/kg to 50000 µg/kg
		4,4'-DDT		10 µg/kg to 50000 µg/kg
		Dieldrin		10 µg/kg to 50000 µg/kg
		Alpha Endosulfan		10 µg/kg to 50000 µg/kg
		Beta Endosulfan		10 µg/kg to 50000 µg/kg
		Endosulfan sulfate		10 µg/kg to 50000 µg/kg
		Endrin		10 µg/kg to 50000 µg/kg
		Endrin aldehyde		10 µg/kg to 50000 µg/kg

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		Alpha- BHC		10 µg/kg to 50000 µg/kg
		Beta-BHC		10 µg/kg to 50000 µg/kg
		Gamma-BHC		10 µg/kg to 50000 µg/kg
		Delta –BHC		10 µg/kg to 50000 µg/kg
		Heptachlor		10 µg/kg to 50000 µg/kg
		Heptachlor epoxide		10 µg/kg to 50000 µg/kg
		<b>Pesticide Residues- Organophosphorous</b>		
		Ethion	MOA/GC/01 , Rev No:01 Dated:15.03.2017/AOAC 20 <sup>th</sup> Edition 970.52	50 µg/kg to 50000 µg/kg
		Methyl parathion		50 µg/kg to 50000 µg/kg
		Malathion		50 µg/kg to 50000 µg/kg
		Parathion		50 µg/kg to 50000 µg/kg
		Dichlorvos		50 µg/kg to 50000 µg/kg
		Chlorpyrifos Methyl		50 µg/kg to 50000 µg/kg
		Acephate		50 µg/kg to 50000 µg/kg
		Monocrotophos		50 µg/kg to 50000 µg/kg
		Chlorfevinfos		50 µg/kg to 50000 µg/kg
		Profenofos		50 µg/kg to 50000 µg/kg
		Phosalone		50 µg/kg to 50000 µg/kg
		Dimethoate		50 µg/kg to 50000 µg/kg
		Triazophos		50 µg/kg to 50000 µg/kg
		Quinalphos		50 µg/kg to 50000 µg/kg
		Formothion		50 µg/kg to 50000 µg/kg
		Pirimiphos Methyl		50 µg/kg to 50000 µg/kg
		Iprobenphos		50 µg/kg to 50000 µg/kg
		<b>Pesticide Residues -Organochlorine</b>		
		BHC-alpha	MOA/GC MSMS/01, Issue No :01 Dated: 16.01.2017	20 µg/kg to 50000 µg/kg
		Hexachlorobenzene		20 µg/kg to 50000 µg/kg
		BHC-beta		20 µg/kg to 50000 µg/kg
		BHC-gamma		20 µg/kg to 50000 µg/kg
		BHC-delta		20 µg/kg to 50000 µg/kg
		Parathion-methyl		20 µg/kg to 50000 µg/kg
		Heptachlor		20 µg/kg to 50000 µg/kg
		Aldrin		20 µg/kg to 50000 µg/kg
		Dicofol		20 µg/kg to 50000 µg/kg

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		Heptachlor (isomer B)		20 µg/kg to 50000 µg/kg
		Chlordane-trans		20 µg/kg to 50000 µg/kg
		Endosulfan I		20 µg/kg to 50000 µg/kg
		Chlordane-cis (alpha)		20 µg/kg to 50000 µg/kg
		DDE-p,p'		20 µg/kg to 50000 µg/kg
		Dieldrin		20 µg/kg to 50000 µg/kg
		Endrin		20 µg/kg to 50000 µg/kg
		Endosulfan II		20 µg/kg to 50000 µg/kg
		DDD-p,p'		20 µg/kg to 50000 µg/kg
		DDT-o,p'		20 µg/kg to 50000 µg/kg
		Endrin aldehyde		20 µg/kg to 50000 µg/kg
		Endosulfan sulfate		20 µg/kg to 50000 µg/kg
		DDT-p,p'		20 µg/kg to 50000 µg/kg
		<b>Pesticide Residues (Pyrethroids)</b>		
		Resmethrin	MOA/GC MSMS/01, Issue No :01 Dated: 16.01.2017	20 µg/kg to 50000 µg/kg
		Permethrin		20 µg/kg to 50000 µg/kg
		Cypermethrin		20 µg/kg to 50000 µg/kg
		Fenvalerate		20 µg/kg to 50000 µg/kg
		Deltamethrin		20 µg/kg to 50000 µg/kg
		<b>Pesticide Residues (Organophosphorous)</b>		
		Fenitrothion	MOA/GC MSMS/01, Issue No :01 Dated: 16.01.2017	20 µg/kg to 50000 µg/kg
		Parathion		20 µg/kg to 50000 µg/kg
		Formothion		20 µg/kg to 50000 µg/kg
		Fonofos		20 µg/kg to 50000 µg/kg
		Acephate		20 µg/kg to 50000 µg/kg
		Monocrotophos		20 µg/kg to 50000 µg/kg
		Dimethoate		20 µg/kg to 50000 µg/kg
		Dichlorvos		20 µg/kg to 50000 µg/kg
		Methidathion		20 µg/kg to 50000 µg/kg
		Azinphos-methyl		20 µg/kg to 50000 µg/kg
		Malathion		20 µg/kg to 50000 µg/kg
		Triazophos		20 µg/kg to 50000 µg/kg
		Quinalphos		20 µg/kg to 50000 µg/kg
		Iprobenfos		20 µg/kg to 50000 µg/kg

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		Diazinon		20 µg/kg to 50000 µg/kg
		Chlorfenvinphos		20 µg/kg to 50000 µg/kg
		Pirimifos-methyl		20 µg/kg to 50000 µg/kg
		Phosalone		20 µg/kg to 50000 µg/kg
		Chlorpyrifos-methyl		20 µg/kg to 50000 µg/kg
		Profenofos		20 µg/kg to 50000 µg/kg
		Ethion		20 µg/kg to 50000 µg/kg
		Chlorpyriphos		20 µg/kg to 50000 µg/kg
		<b>Other Pesticide Residues</b>		
		Bromopropylate	MOA/GC MSMS/01, Issue No :01 Dated: 16.01.2017	20 µg/kg to 50000 µg/kg
		Pentachloroaniline		20 µg/kg to 50000 µg/kg
		Piperonyl butoxide		20 µg/kg to 50000 µg/kg
		Quintozene		20 µg/kg to 50000 µg/kg
		Carbaryl		20 µg/kg to 50000 µg/kg
		Inorganic Bromide	IS 14626	5 mg/kg to 1000 mg/kg
<b>c.</b>	<b>Coconut &amp; Coconut products</b>	<b>Pesticide Residues -Organochlorine</b>		
		Aldrin	MOA/GC/01 , Rev No:01 Dated:15.03.2017/ AOAC 20 <sup>th</sup> Edition 970.52	10 µg/kg to 50000 µg/kg
		4,4'-DDD		10 µg/kg to 50000 µg/kg
		4,4'-DDE		10 µg/kg to 50000 µg/kg
		4,4'-DDT		10 µg/kg to 50000 µg/kg
		Dieldrin		10 µg/kg to 50000 µg/kg
		Alpha Endosulfan		10 µg/kg to 50000 µg/kg
		Beta Endosulfan		10 µg/kg to 50000 µg/kg
		Endosulfan sulfate		10 µg/kg to 50000 µg/kg
		Endrin		10 µg/kg to 50000 µg/kg
		Endrin aldehyde		10 µg/kg to 50000 µg/kg
		Alpha- BHC		10 µg/kg to 50000 µg/kg
		Beta-BHC		10 µg/kg to 50000 µg/kg
		Gamma-BHC		10 µg/kg to 50000 µg/kg
		Delta -BHC		10 µg/kg to 50000 µg/kg
		Heptachlor		10 µg/kg to 50000 µg/kg
		Heptachlor epoxide		10 µg/kg to 50000 µg/kg
		<b>Pesticide Residues-Organophosphorous</b>		
		Ethion	MOA/GC/01 , Rev No:01	50 µg/kg to 50000 µg/kg

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		Methyl parathion	Dated:15.03.2017/ AOAC 20 <sup>th</sup> Edition 970.52	50 µg/kg to 50000 µg/kg
		Malathion		50 µg/kg to 50000 µg/kg
		Parathion		50 µg/kg to 50000 µg/kg
		Dichlorvos		50 µg/kg to 50000 µg/kg
		Chlorpyrifos Methyl		50 µg/kg to 50000 µg/kg
		Acephate		50 µg/kg to 50000 µg/kg
		Monocrotophos		50 µg/kg to 50000 µg/kg
		Chlorfevinfos		50 µg/kg to 50000 µg/kg
		Profenofos		50 µg/kg to 50000 µg/kg
		Phosalone		50 µg/kg to 50000 µg/kg
		Dimethoate		50 µg/kg to 50000 µg/kg
		Triazophos		50 µg/kg to 50000 µg/kg
		Quinalphos		50 µg/kg to 50000 µg/kg
		Formothion		50 µg/kg to 50000 µg/kg
		Pirimiphos Methyl	50 µg/kg to 50000 µg/kg	
		Iprobenphos	50 µg/kg to 50000 µg/kg	
<b>d.</b>	<b>Edible Oil &amp; Fat</b>	<b>Pesticide Residues -Organochlorine</b>		
		Aldrin	MOA/GC/01 , Rev No:01 Dated:15.03.2017/ AOAC 20 <sup>th</sup> Edition 970.52	10 µg/kg to 50000 µg/kg
		4,4'-DDD		10 µg/kg to 50000 µg/kg
		4,4'-DDE		10 µg/kg to 50000 µg/kg
		4,4'-DDT		10 µg/kg to 50000 µg/kg
		Dieldrin		10 µg/kg to 50000 µg/kg
		Alpha Endosulfan		10 µg/kg to 50000 µg/kg
		Beta Endosulfan		10 µg/kg to 50000 µg/kg
		Endosulfan sulfate		10 µg/kg to 50000 µg/kg
		Endrin		10 µg/kg to 50000 µg/kg
		Endrin aldehyde		10 µg/kg to 50000 µg/kg
		Alpha- BHC		10 µg/kg to 50000 µg/kg
		Beta-BHC		10 µg/kg to 50000 µg/kg
		Gamma-BHC		10 µg/kg to 50000 µg/kg
		Delta -BHC		10 µg/kg to 50000 µg/kg
		Heptachlor		10 µg/kg to 50000 µg/kg
		Heptachlor epoxide		10 µg/kg to 50000 µg/kg
		<b>Pesticide Residues -Organochlorine</b>		

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		Ethion	MOA/GC/01 , Rev No:01 Dated:15.03.2017 /AOAC 20th Edition 970.52	50 µg/kg to 50000 µg/kg
		Methyl parathion		50 µg/kg to 50000 µg/kg
		Malathion		50 µg/kg to 50000 µg/kg
		Parathion		50 µg/kg to 50000 µg/kg
		Dichlorvos		50 µg/kg to 50000 µg/kg
		Chlorpyrifos Methyl		50 µg/kg to 50000 µg/kg
		Acephate		50 µg/kg to 50000 µg/kg
		Monocrotophos		50 µg/kg to 50000 µg/kg
		Chlorfevinfos		50 µg/kg to 50000 µg/kg
		Profenofos		50 µg/kg to 50000 µg/kg
		Phosalone		50 µg/kg to 50000 µg/kg
		Dimethoate		50 µg/kg to 50000 µg/kg
		Triazophos		50 µg/kg to 50000 µg/kg
		Quinalphos		50 µg/kg to 50000 µg/kg
		Formothion		50 µg/kg to 50000 µg/kg
		Pirimiphos Methyl		50 µg/kg to 50000 µg/kg
		Iprobenphos	50 µg/kg to 50000 µg/kg	
		<b>Poly Aromatic Hydrocarbons (PAH)</b>		
		Napthalene	MOA/GC MSMS/02, Issue No :01 Date: 16.01.2017	5 µg/kg to 500 µg/kg
		Acenaphthylene		5 µg/kg to 500 µg/kg
		Acenaphthene		5 µg/kg to 500 µg/kg
		Fluorene		5 µg/kg to 500 µg/kg
		Phenanthrene		5 µg/kg to 500 µg/kg
		Anthracene		5 µg/kg to 500 µg/kg
		Fluoranthene		5 µg/kg to 500 µg/kg
		Pyrene		5 µg/kg to 500 µg/kg
		Benzo (a) anthracene		5 µg/kg to 500 µg/kg
		Chrysene		5 µg/kg to 500 µg/kg
		Benzo (b) fluoranthrene		5 µg/kg to 500 µg/kg
		Benzo (a) pyrene		5 µg/kg to 500 µg/kg
		Indeno (1,2,3,-cd) pyrene		5 µg/kg to 500 µg/kg
		Dibenz (a,h) anthracene		5 µg/kg to 500 µg/kg
e.	Fruit & Fruit products	<b>Pesticide Residues-Organochlorine</b>		
		Aldrin	MOA/GC/01, Rev No:01	10 µg/kg to 50000 µg/kg

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		4,4'-DDD	Dated:15.03.2017 /AOAC 20 <sup>th</sup> Edition 970.52	10 µg/kg to 50000 µg/kg
		4,4'-DDE		10 µg/kg to 50000 µg/kg
		4,4'-DDT		10 µg/kg to 50000 µg/kg
		Dieldrin		10 µg/kg to 50000 µg/kg
		Alpha Endosulfan		10 µg/kg to 50000 µg/kg
		Beta Endosulfan		10 µg/kg to 50000 µg/kg
		Endosulfan sulfate		10 µg/kg to 50000 µg/kg
		Endrin		10 µg/kg to 50000 µg/kg
		Endrin aldehyde		10 µg/kg to 50000 µg/kg
		Alpha- BHC		10 µg/kg to 50000 µg/kg
		Beta-BHC		10 µg/kg to 50000 µg/kg
		Gamma-BHC		10 µg/kg to 50000 µg/kg
		Delta -BHC		10 µg/kg to 50000 µg/kg
		Heptachlor		10 µg/kg to 50000 µg/kg
		Heptachlor epoxide		10 µg/kg to 50000 µg/kg
		<b>Pesticide Residues-Organophosphorous</b>		
		Ethion	MOA/GC/01 , Rev No:01 Dated:15.03.2017 /AOAC 20 <sup>th</sup> Edition 970.52	50 µg/kg to 50000 µg/kg
		Methyl parathion		50 µg/kg to 50000 µg/kg
		Malathion		50 µg/kg to 50000 µg/kg
		Parathion		50 µg/kg to 50000 µg/kg
		Dichlorvos		50 µg/kg to 50000 µg/kg
		Chlorpyrifos Methyl		50 µg/kg to 50000 µg/kg
		Acephate		50 µg/kg to 50000 µg/kg
		Monocrotophos		50 µg/kg to 50000 µg/kg
		Chlorfevinfos		50 µg/kg to 50000 µg/kg
		Profenofos		50 µg/kg to 50000 µg/kg
		Phosalone		50 µg/kg to 50000 µg/kg
		Dimethoate		50 µg/kg to 50000 µg/kg
		Triazophos		50 µg/kg to 50000 µg/kg
		Quinalphos	50 µg/kg to 50000 µg/kg	
		Formothion	50 µg/kg to 50000 µg/kg	
		Pirimiphos Methyl	50 µg/kg to 50000 µg/kg	
		Iprobenphos	50 µg/kg to 50000 µg/kg	
		<b>Pesticide Residues-Organochlorine</b>		

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		BHC-alpha	MOA/GC MSMS/01, Issue No :01 Dated: 16.01.2017	10 µg/kg to 50000 µg/kg
		Hexachlorobenzene		10 µg/kg to 50000 µg/kg
		BHC-beta		10 µg/kg to 50000 µg/kg
		BHC-gamma		10 µg/kg to 50000 µg/kg
		BHC-delta		10 µg/kg to 50000 µg/kg
		Parathion-methyl		10 µg/kg to 50000 µg/kg
		Heptachlor		10 µg/kg to 50000 µg/kg
		Aldrin		10 µg/kg to 50000 µg/kg
		Dicofol		10 µg/kg to 50000 µg/kg
		Heptachlor (isomer B)		10 µg/kg to 50000 µg/kg
		Chlordane-trans		10 µg/kg to 50000 µg/kg
		Endosulfan I		10 µg/kg to 50000 µg/kg
		Chlordane-cis (alpha)		10 µg/kg to 50000 µg/kg
		DDE-p,p'		10 µg/kg to 50000 µg/kg
		Dieldrin		10 µg/kg to 50000 µg/kg
		Endrin		10 µg/kg to 50000 µg/kg
		Endosulfan II		10 µg/kg to 50000 µg/kg
		DDD-p,p'		10 µg/kg to 50000 µg/kg
		DDT-o,p'		10 µg/kg to 50000 µg/kg
		Endrin aldehyde		10 µg/kg to 50000 µg/kg
		Endosulfan sulfate		10 µg/kg to 50000 µg/kg
		DDT-p,p'		10 µg/kg to 50000 µg/kg
		<b>Pesticide Residues -Pyrethroids</b>		
		Resmethrin	MOA/GC MSMS/01, Issue No :01 Dated: 16.01.2017	10 µg/kg to 50000 µg/kg
		Permethrin		10 µg/kg to 50000 µg/kg
		Cypermethrin		10 µg/kg to 50000 µg/kg
		Fenvalerate		10 µg/kg to 50000 µg/kg
		Deltamethrin		10 µg/kg to 50000 µg/kg
		<b>Pesticide Residues -Organophosphorous</b>		
		Fenitrothion	MOA/GC MSMS/01, Issue No :01 Dated: 16.01.2017	10 µg/kg to 50000 µg/kg
		Parathion		10 µg/kg to 50000 µg/kg
		Formothion		10 µg/kg to 50000 µg/kg
		Fonofos		10 µg/kg to 50000 µg/kg
		Acephate		10 µg/kg to 50000 µg/kg



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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Monocrotophos		10 µg/kg to 50000 µg/kg
		Dimethoate		10 µg/kg to 50000 µg/kg
		Dichlorvos		10 µg/kg to 50000 µg/kg
		Methidathion		10 µg/kg to 50000 µg/kg
		Azinphos-methyl		10 µg/kg to 50000 µg/kg
		Malathion		10 µg/kg to 50000 µg/kg
		Triazophos		10 µg/kg to 50000 µg/kg
		Quinalphos		10 µg/kg to 50000 µg/kg
		Iprobenfos		10 µg/kg to 50000 µg/kg
		Diazinon		10 µg/kg to 50000 µg/kg
		Chlorfenvinphos		10 µg/kg to 50000 µg/kg
		Pirimifos-methyl		10 µg/kg to 50000 µg/kg
		Phosalone		10 µg/kg to 50000 µg/kg
		Chlorpyrifos-methyl		10 µg/kg to 50000 µg/kg
		Profenofos		10 µg/kg to 50000 µg/kg
		Ethion		10 µg/kg to 50000 µg/kg
		Chlorpyriphos		10 µg/kg to 50000 µg/kg
		Trifuralin		10 µg/kg to 50000 µg/kg
		<b>Pesticide Residues</b>		
		Bromopropylate	MOA/GC MSMS/01, Issue No :01 Dated: 16.01.2017	10 µg/kg to 50000 µg/kg
		Pentachloroaniline		10 µg/kg to 50000 µg/kg
		Quintozene		10 µg/kg to 50000 µg/kg
		Carbaryl		10 µg/kg to 50000 µg/kg
		Piperonyl butoxide		10 µg/kg to 50000 µg/kg
<b>f.</b>	<b>Herbs, Spices &amp; Condiments</b>	<b>Pesticide Residues-Organochlorine</b>		
		Aldrin	MOA/GC/01 , Rev No:01 Dated:15.03.2017 /AOAC 20th Edition 970.52	10 µg/kg to 50000 µg/kg
		4,4'-DDD		10 µg/kg to 50000 µg/kg
		4,4'-DDE		10 µg/kg to 50000 µg/kg
		4,4'-DDT		10 µg/kg to 50000 µg/kg
		Dieldrin		10 µg/kg to 50000 µg/kg
		Alpha Endosulfan		10 µg/kg to 50000 µg/kg
		Beta Endosulfan		10 µg/kg to 50000 µg/kg
		Endosulfan sulfate		10 µg/kg to 50000 µg/kg
		Endrin		10 µg/kg to 50000 µg/kg

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		Endrin aldehyde		10 µg/kg to 50000 µg/kg
		Alpha- BHC		10 µg/kg to 50000 µg/kg
		Beta-BHC		10 µg/kg to 50000 µg/kg
		Gamma-BHC		10 µg/kg to 50000 µg/kg
		Delta –BHC		10 µg/kg to 50000 µg/kg
		Heptachlor		10 µg/kg to 50000 µg/kg
		Heptachlor epoxide		10 µg/kg to 50000 µg/kg
		<b>Pesticide Residues-Organophosphorous:</b>		
		Ethion	MOA/GC/01 , Rev No:01 Dated:15.03.2017/ AOAC 20th Edition 970.52	50 µg/kg to 50000 µg/kg
		Methyl parathion		50 µg/kg to 50000 µg/kg
		Malathion		50 µg/kg to 50000 µg/kg
		Parathion		50 µg/kg to 50000 µg/kg
		Dichlorvos		50 µg/kg to 50000 µg/kg
		Chlorpyrifos Methyl		50 µg/kg to 50000 µg/kg
		Acephate		50 µg/kg to 50000 µg/kg
		Monocrotophos		50 µg/kg to 50000 µg/kg
		Chlorfevinfos		50 µg/kg to 50000 µg/kg
		Profenofos		50 µg/kg to 50000 µg/kg
		Phosalone		50 µg/kg to 50000 µg/kg
		Dimethoate		50 µg/kg to 50000 µg/kg
		Triazophos		50 µg/kg to 50000 µg/kg
		Quinalphos		50 µg/kg to 50000 µg/kg
		Formothion		50 µg/kg to 50000 µg/kg
		Pirimiphos Methyl		50 µg/kg to 50000 µg/kg
		Iprobenphos		50 µg/kg to 50000 µg/kg
		<b>Pesticide Residues -Organochlorine</b>		
		BHC-alpha	MOA/GC MSMS/01, Issue No :01 Dated: 16.01.2017	20 µg/kg to 50000 µg/kg
		Hexachlorobenzene		20 µg/kg to 50000 µg/kg
		BHC-beta		20 µg/kg to 50000 µg/kg
		BHC-gamma		20 µg/kg to 50000 µg/kg
		BHC-delta		20 µg/kg to 50000 µg/kg
		Parathion-methyl		20 µg/kg to 50000 µg/kg
		Heptachlor		20 µg/kg to 50000 µg/kg
		Aldrin		20 µg/kg to 50000 µg/kg

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		Dicofol		20 µg/kg to 50000 µg/kg
		Heptachlor (isomer B)		20 µg/kg to 50000 µg/kg
		Chlordane-trans		20 µg/kg to 50000 µg/kg
		Endosulfan I		20 µg/kg to 50000 µg/kg
		Chlordane-cis (alpha)		20 µg/kg to 50000 µg/kg
		DDE-p,p'		20 µg/kg to 50000 µg/kg
		Dieldrin		20 µg/kg to 50000 µg/kg
		Endrin		20 µg/kg to 50000 µg/kg
		Endosulfan II		20 µg/kg to 50000 µg/kg
		DDD-p,p'		20 µg/kg to 50000 µg/kg
		DDT-o,p'		20 µg/kg to 50000 µg/kg
		Endrin aldehyde		20 µg/kg to 50000 µg/kg
		Endosulfan sulfate		20 µg/kg to 50000 µg/kg
		DDT-p,p'		20 µg/kg to 50000 µg/kg
		<b>Pesticide Residues-Pyrethroids</b>		
		Resmethrin	MOA/GC MSMS/01, Issue No :01 Dated: 16.01.2017	20 µg/kg to 50000 µg/kg
		Permethrin		20 µg/kg to 50000 µg/kg
		Cypermethrin		20 µg/kg to 50000 µg/kg
		Fenvalerate		20 µg/kg to 50000 µg/kg
		Deltamethrin		20 µg/kg to 50000 µg/kg
		<b>Pesticide Residues-Organophosphorous</b>		
		Fenitrothion	MOA/GC MSMS/01, Issue No :01 Dated: 16.01.2017	20 µg/kg to 50000 µg/kg
		Parathion		20 µg/kg to 50000 µg/kg
		Formothion		20 µg/kg to 50000 µg/kg
		Fonofos		20 µg/kg to 50000 µg/kg
		Acephate		20 µg/kg to 50000 µg/kg
		Monocrotophos		20 µg/kg to 50000 µg/kg
		Dimethoate		20 µg/kg to 50000 µg/kg
		Dichlorvos		20 µg/kg to 50000 µg/kg
		Methidathion		20 µg/kg to 50000 µg/kg
		Azinphos-methyl		20 µg/kg to 50000 µg/kg
		Malathion		20 µg/kg to 50000 µg/kg
		Triazophos		20 µg/kg to 50000 µg/kg

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		Parathion		20 µg/kg to 50000 µg/kg
		Quinalphos		20 µg/kg to 50000 µg/kg
		Iprobenfos		20 µg/kg to 50000 µg/kg
		Diazinon		20 µg/kg to 50000 µg/kg
		Chlorfenvinphos		20 µg/kg to 50000 µg/kg
		Pirimifos-methyl		20 µg/kg to 50000 µg/kg
		Phosalone		20 µg/kg to 50000 µg/kg
		Chlorpyrifos-methyl		20 µg/kg to 50000 µg/kg
		Profenofos		20 µg/kg to 50000 µg/kg
		Ethion		20 µg/kg to 50000 µg/kg
		Chlorpyriphos		20 µg/kg to 50000 µg/kg
		Dithiocarbamates as CS <sub>2</sub>	MOA/GC MSMS/03, Issue No :01 Date: 16.01.2017	100 µg/kg to 5000 µg/kg
		<b>Pesticide Residues (residual group)</b>		
		Bromopropylate	MOA/GC MSMS/01, Issue No :01 Dated: 16.01.2017	20 µg/kg to 50000 µg/kg
		Pentachloroaniline		20 µg/kg to 50000 µg/kg
		Quintozene		20 µg/kg to 50000 µg/kg
		Carbaryl		20 µg/kg to 50000 µg/kg
		Piperonyl butoxide		20 µg/kg to 50000 µg/kg
		Fosetyl Aluminium	MOA/LCMMS/01	20 µg/kg to 50000 µg/kg
		2,4 D		20 µg/kg to 50000 µg/kg
		Inorganic Bromide	IS 14626	5-1000 mg/kg
<b>g.</b>	<b>Jams, Juices, Sauces &amp; Concentrates</b>	<b>Pesticide Residues -Organochlorine</b>		
		Aldrin	MOA/GC/01, AOAC 20th Edition 970.52	10 µg/kg to 50000 µg/kg
		4,4'-DDD		10 µg/kg to 50000 µg/kg
		4,4'-DDE		10 µg/kg to 50000 µg/kg
		4,4'-DDT		10 µg/kg to 50000 µg/kg
		Dieldrin		10 µg/kg to 50000 µg/kg
		Alpha Endosulfan		10 µg/kg to 50000 µg/kg
		Beta Endosulfan		10 µg/kg to 50000 µg/kg
		Endosulfan sulfate		10 µg/kg to 50000 µg/kg
		Endrin		10 µg/kg to 50000 µg/kg
		Endrin aldehyde		10 µg/kg to 50000 µg/kg
		Alpha- BHC		10 µg/kg to 50000 µg/kg

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		Beta-BHC		10 µg/kg to 50000 µg/kg
		Gamma-BHC		10 µg/kg to 50000 µg/kg
		Delta -BHC		10 µg/kg to 50000 µg/kg
		Heptachlor		10 µg/kg to 50000 µg/kg
		Heptachlor epoxide		10 µg/kg to 50000 µg/kg
		<b>Pesticide Residues -Organophosphorous</b>		
		Ethion	MOA/GC/01 , Rev No:01 Dated:15.03.2017 /AOAC 20th Edition 970.52	50 µg/kg to 50000 µg/kg
		Methyl parathion		50 µg/kg to 50000 µg/kg
		Malathion		50 µg/kg to 50000 µg/kg
		Parathion		50 µg/kg to 50000 µg/kg
		Dichlorvos		50 µg/kg to 50000 µg/kg
		Chlorpyrifos Methyl		50 µg/kg to 50000 µg/kg
		Acephate		50 µg/kg to 50000 µg/kg
		Monocrotophos		50 µg/kg to 50000 µg/kg
		Chlorfevinfos		50 µg/kg to 50000 µg/kg
		Profenofos		50 µg/kg to 50000 µg/kg
		Phosalone		50 µg/kg to 50000 µg/kg
		Dimethoate		50 µg/kg to 50000 µg/kg
		Triazophos		50 µg/kg to 50000 µg/kg
		Quinalphos		50 µg/kg to 50000 µg/kg
		Formothion		50 µg/kg to 50000 µg/kg
		Pirimiphos Methyl		50 µg/kg to 50000 µg/kg
		Iprobenphos		50 µg/kg to 50000 µg/kg
		<b>Pesticide Residues-Organochlorine</b>		
		BHC-alpha	MOA/GC MSMS/01, Issue No :01 Dated: 16.01.2017	20 µg/kg to 50000 µg/kg
		Hexachlorobenzene		20 µg/kg to 50000 µg/kg
		BHC-beta		20 µg/kg to 50000 µg/kg
		BHC-gamma		20 µg/kg to 50000 µg/kg
		BHC-delta		20 µg/kg to 50000 µg/kg
		Parathion-methyl		20 µg/kg to 50000 µg/kg
		Heptachlor		20 µg/kg to 50000 µg/kg
		Aldrin		20 µg/kg to 50000 µg/kg
		Dicofol		20 µg/kg to 50000 µg/kg
		Heptachlor (isomer B)		20 µg/kg to 50000 µg/kg

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Chlordane-trans		20 µg/kg to 50000 µg/kg
		Endosulfan I		20 µg/kg to 50000 µg/kg
		Chlordane-cis (alpha)		20 µg/kg to 50000 µg/kg
		DDE-p,p'		20 µg/kg to 50000 µg/kg
		Dieldrin		20 µg/kg to 50000 µg/kg
		Endrin		20 µg/kg to 50000 µg/kg
		Endosulfan II		20 µg/kg to 50000 µg/kg
		DDD-p,p'		20 µg/kg to 50000 µg/kg
		DDT-o,p'		20 µg/kg to 50000 µg/kg
		Endrin aldehyde		20 µg/kg to 50000 µg/kg
		Endosulfan sulfate		20 µg/kg to 50000 µg/kg
		DDT-p,p'		20 µg/kg to 50000 µg/kg
		<b>Pesticide Residues- Pyrethroids</b>		
		Resmethrin	MOA/GC MSMS/01, Issue No :01 Dated: 16.01.2017	20 µg/kg to 50000 µg/kg
		Permethrin		20 µg/kg to 50000 µg/kg
		Cypermethrin		20 µg/kg to 50000 µg/kg
		Fenvalerate		20 µg/kg to 50000 µg/kg
		Deltamethrin		20 µg/kg to 50000 µg/kg
		<b>Pesticide Residues-Organophosphorous</b>		
		Fenitrothion	MOA/GC MSMS/01, Issue No :01 Dated: 16.01.2017	20 µg/kg to 50000 µg/kg
		Parathion		20 µg/kg to 50000 µg/kg
		Formothion		20 µg/kg to 50000 µg/kg
		Fonofos		20 µg/kg to 50000 µg/kg
		Acephate		20 µg/kg to 50000 µg/kg
		Monocrotophos		20 µg/kg to 50000 µg/kg
		Dimethoate		20 µg/kg to 50000 µg/kg
		Dichlorvos		20 µg/kg to 50000 µg/kg
		Methidathion		20 µg/kg to 50000 µg/kg
		Azinphos-methyl		20 µg/kg to 50000 µg/kg
		Malathion		20 µg/kg to 50000 µg/kg
		Triazophos		20 µg/kg to 50000 µg/kg
		Quinalphos		20 µg/kg to 50000 µg/kg
		Iprobenfos		20 µg/kg to 50000 µg/kg
		Diazinon		20 µg/kg to 50000 µg/kg

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		Chlorfenvinphos		20 µg/kg to 50000 µg/kg
		Pirimifos-methyl		20 µg/kg to 50000 µg/kg
		Phosalone		20 µg/kg to 50000 µg/kg
		Chlorpyrifos-methyl		20 µg/kg to 50000 µg/kg
		Profenofos		20 µg/kg to 50000 µg/kg
		Ethion		20 µg/kg to 50000 µg/kg
		Chlorpyriphos		20 µg/kg to 50000 µg/kg
		<b>Pesticide Residues (residual groups)</b>		
		Bromopropylate	MOA/GC MSMS/01, Issue No :01 Dated: 16.01.2017	20 µg/kg to 50000 µg/kg
		Pentachloroaniline		20 µg/kg to 50000 µg/kg
		Quintozene		20 µg/kg to 50000 µg/kg
		Carbaryl		20 µg/kg to 50000 µg/kg
		Piperonyl butoxide		20 µg/kg to 50000 µg/kg
<b>h.</b>	<b>Milk &amp; Dairy Products</b>	<b>Pesticide Residues -Organochlorine</b>		
		Aldrin	MOA/GC/01 , Rev No:01 Dated:15.03.2017 / AOAC 20 <sup>th</sup> Edition 970.52	10 µg/kg to 50000 µg/kg
		4,4'-DDD		10 µg/kg to 50000 µg/kg
		4,4'-DDE		10 µg/kg to 50000 µg/kg
		4,4'-DDT		10 µg/kg to 50000 µg/kg
		Dieldrin		10 µg/kg to 50000 µg/kg
		Alpha Endosulfan		10 µg/kg to 50000 µg/kg
		Beta Endosulfan		10 µg/kg to 50000 µg/kg
		Endosulfan sulfate		10 µg/kg to 50000 µg/kg
		Endrin		10 µg/kg to 50000 µg/kg
		Endrin aldehyde		10 µg/kg to 50000 µg/kg
		Alpha- BHC		10 µg/kg to 50000 µg/kg
		Beta-BHC		10 µg/kg to 50000 µg/kg
		Gamma-BHC		10 µg/kg to 50000 µg/kg
		Delta -BHC		10 µg/kg to 50000 µg/kg
		Heptachlor		10 µg/kg to 50000 µg/kg
		Heptachlor epoxide		10 µg/kg to 50000 µg/kg
		<b>Pesticide Residues-Organophosphorous</b>		
		Ethion	MOA/GC/01 , Rev No:01 Dated:15.03.2017 /AOAC 20 <sup>th</sup> Edition; 970.52	50 µg/kg to 50000 µg/kg
		Methyl parathion		50 µg/kg to 50000 µg/kg
		Malathion		50 µg/kg to 50000 µg/kg

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		Parathion		50 µg/kg to 50000 µg/kg
		Dichlorvos		50 µg/kg to 50000 µg/kg
		Chlorpyrifos Methyl		50 µg/kg to 50000 µg/kg
		Acephate		50 µg/kg to 50000 µg/kg
		Monocrotophos		50 µg/kg to 50000 µg/kg
		Chlorfevinfos		50 µg/kg to 50000 µg/kg
		Profenofos		50 µg/kg to 50000 µg/kg
		Phosalone		50 µg/kg to 50000 µg/kg
		Dimethoate		50 µg/kg to 50000 µg/kg
		Triazophos		50 µg/kg to 50000 µg/kg
		Quinalphos		50 µg/kg to 50000 µg/kg
		Formothion		50 µg/kg to 50000 µg/kg
		Pirimiphos Methyl		50 µg/kg to 50000 µg/kg
		Iprobenphos		50 µg/kg to 50000 µg/kg
<b>i.</b>	<b>Nut &amp; Nut products</b>	<b>Pesticide Residues -Organochlorine</b>		
		Aldrin	MOA/GC/01 , Rev No:01	0.01-100 mg/kg
		4,4'-DDD	Dated:15.03.2017 / AOAC	0.01-100 mg/kg
		4,4'-DDE	20 <sup>th</sup> Edition; 970.52	0.01-100 mg/kg
		4,4'-DDT		0.01-100 mg/kg
		Dieldrin		0.01-100 mg/kg
		Alpha Endosulfan		0.01-100 mg/kg
		Beta Endosulfan		0.01-100 mg/kg
		Endosulfan sulfate		0.01-100 mg/kg
		Endrin		0.01-100 mg/kg
		Endrin aldehyde		0.01-100 mg/kg
		Alpha- BHC		0.01-100 mg/kg
		Beta-BHC		0.01-100 mg/kg
		Gamma-BHC		0.01-100 mg/kg
		Delta -BHC		0.01-100 mg/kg
		Heptachlor		0.01-100 mg/kg
		Heptachlor epoxide		0.01-100 mg/kg
		<b>Pesticide Residues-Organophosphorous</b>		
		Ethion	MOA/GC/01 , Rev No:01	50 µg/kg to 50000 µg/kg



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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Methyl parathion	Dated:15.03.2017 /AOAC 20 <sup>th</sup> Edition; 970.52	50 µg/kg to 50000 µg/kg
		Malathion		50 µg/kg to 50000 µg/kg
		Parathion		50 µg/kg to 50000 µg/kg
		Dichlorvos		50 µg/kg to 50000 µg/kg
		Chlorpyrifos Methyl		50 µg/kg to 50000 µg/kg
		Acephate		50 µg/kg to 50000 µg/kg
		Monocrotophos		50 µg/kg to 50000 µg/kg
		Chlorfevinfos		50 µg/kg to 50000 µg/kg
		Profenofos		50 µg/kg to 50000 µg/kg
		Phosalone		50 µg/kg to 50000 µg/kg
		Dimethoate		50 µg/kg to 50000 µg/kg
		Triazophos		50 µg/kg to 50000 µg/kg
		Quinalphos		50 µg/kg to 50000 µg/kg
		Formothion		50 µg/kg to 50000 µg/kg
		Pirimiphos Methyl		50 µg/kg to 50000 µg/kg
		Iprobenphos		50 µg/kg to 50000 µg/kg
		<b>Pesticide Residues-Organochlorine</b>		
		BHC-alpha	MOA/GC MSMS/01, Issue No :01 Dated: 16.01.2017	20 µg/kg to 50000 µg/kg
		Hexachlorobenzene		20 µg/kg to 50000 µg/kg
		BHC-beta		20 µg/kg to 50000 µg/kg
		BHC-gamma		20 µg/kg to 50000 µg/kg
		BHC-delta		20 µg/kg to 50000 µg/kg
		Parathion-methyl		20 µg/kg to 50000 µg/kg
		Heptachlor		20 µg/kg to 50000 µg/kg
		Aldrin		20 µg/kg to 50000 µg/kg
		Dicofol		20 µg/kg to 50000 µg/kg
		Heptachlor (isomer B)		20 µg/kg to 50000 µg/kg
		Chlordane-trans		20 µg/kg to 50000 µg/kg
		Endosulfan I		20 µg/kg to 50000 µg/kg
		Chlordane-cis (alpha)		20 µg/kg to 50000 µg/kg
		DDE-p,p'		20 µg/kg to 50000 µg/kg
		Dieldrin		20 µg/kg to 50000 µg/kg
		Endrin		20 µg/kg to 50000 µg/kg
		Endosulfan II		20 µg/kg to 50000 µg/kg

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		DDD-p,p'		20 µg/kg to 50000 µg/kg
		DDT-o,p'		20 µg/kg to 50000 µg/kg
		Endrin aldehyde		20 µg/kg to 50000 µg/kg
		Endosulfan sulfate		20 µg/kg to 50000 µg/kg
		DDT-p,p'		20 µg/kg to 50000 µg/kg
		<b>Pesticide Residues -Pyrethroids</b>		
		Resmethrin	MOA/GC MSMS/01, Issue No :01 Dated: 16.01.2017	20 µg/kg to 50000 µg/kg
		Permethrin		20 µg/kg to 50000 µg/kg
		Cypermethrin		20 µg/kg to 50000 µg/kg
		Fenvalerate		20 µg/kg to 50000 µg/kg
		Deltamethrin		20 µg/kg to 50000 µg/kg
		<b>Pesticide Residues -Organophosphorous</b>		
		Fenitrothion	MOA/GC MSMS/01, Issue No :01 Dated: 16.01.2017	20 µg/kg to 50000 µg/kg
		Parathion		20 µg/kg to 50000 µg/kg
		Formothion		20 µg/kg to 50000 µg/kg
		Fonofos		20 µg/kg to 50000 µg/kg
		Acephate		20 µg/kg to 50000 µg/kg
		Monocrotophos		20 µg/kg to 50000 µg/kg
		Dimethoate		20 µg/kg to 50000 µg/kg
		Dichlorvos		20 µg/kg to 50000 µg/kg
		Methidathion		20 µg/kg to 50000 µg/kg
		Azinphos-methyl		20 µg/kg to 50000 µg/kg
		Malathion		20 µg/kg to 50000 µg/kg
		Triazophos		20 µg/kg to 50000 µg/kg
		Quinalphos		20 µg/kg to 50000 µg/kg
		Iprobenfos		20 µg/kg to 50000 µg/kg
		Diazinon		20 µg/kg to 50000 µg/kg
		Chlorfenvinphos		20 µg/kg to 50000 µg/kg
		Pirimifos-methyl		20 µg/kg to 50000 µg/kg
		Phosalone		20 µg/kg to 50000 µg/kg
		Chlorpyrifos-methyl		20 µg/kg to 50000 µg/kg
		Profenofos		20 µg/kg to 50000 µg/kg
		Ethion		20 µg/kg to 50000 µg/kg
		Chlorpyriphos		20 µg/kg to 50000 µg/kg

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		<b>Pesticide Residues (residual groups)</b>		
		Bromopropylate	MOA/GC MSMS/01, Issue No :01 Dated: 16.01.2017	20 µg/kg to 50000 µg/kg
		Pentachloroaniline		20 µg/kg to 50000 µg/kg
		Quintozene		20 µg/kg to 50000 µg/kg
		Carbaryl		20 µg/kg to 50000 µg/kg
		Piperonyl butoxide		20 µg/kg to 50000 µg/kg
j.	<b>Oilseeds &amp; By products</b>	<b>Pesticide Residues (Organochlorine pesticides)</b>		
		Aldrin	MOA/GC/01 , Rev No:01 Dated:15.03.2017 /AOAC 20th Edition; 970.52	10 µg/kg to 50000 µg/kg
		4,4'-DDD		10 µg/kg to 50000 µg/kg
		4,4'-DDE		10 µg/kg to 50000 µg/kg
		4,4'-DDT		10 µg/kg to 50000 µg/kg
		Dieldrin		10 µg/kg to 50000 µg/kg
		Alpha Endosulfan		10 µg/kg to 50000 µg/kg
		Beta Endosulfan		10 µg/kg to 50000 µg/kg
		Endosulfan sulfate		10 µg/kg to 50000 µg/kg
		Endrin		10 µg/kg to 50000 µg/kg
		Endrin aldehyde		10 µg/kg to 50000 µg/kg
		Alpha- BHC		10 µg/kg to 50000 µg/kg
		Beta-BHC		10 µg/kg to 50000 µg/kg
		Gamma-BHC		10 µg/kg to 50000 µg/kg
		Delta -BHC		10 µg/kg to 50000 µg/kg
		Heptachlor		10 µg/kg to 50000 µg/kg
		Heptachlor epoxide		10 µg/kg to 50000 µg/kg
		<b>Pesticide Residues (Organophosphorous pesticides)</b>		
		Ethion	MOA/GC/01 , Rev No:01 Dated:15.03.2017 /AOAC 20th Edition; 970.52	50 µg/kg to 50000 µg/kg
		Methyl parathion		50 µg/kg to 50000 µg/kg
		Malathion		50 µg/kg to 50000 µg/kg
		Parathion		50 µg/kg to 50000 µg/kg
		Dichlorvos		50 µg/kg to 50000 µg/kg
		Chlorpyrifos Methyl		50 µg/kg to 50000 µg/kg
		Acephate		50 µg/kg to 50000 µg/kg
		Monocrotophos		50 µg/kg to 50000 µg/kg
		Chlorfevinfos		50 µg/kg to 50000 µg/kg
		Profenofos		50 µg/kg to 50000 µg/kg

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		Phosalone		50 µg/kg to 50000 µg/kg	
		Dimethoate		50 µg/kg to 50000 µg/kg	
		Triazophos		50 µg/kg to 50000 µg/kg	
		Quinalphos		50 µg/kg to 50000 µg/kg	
		Formothion		50 µg/kg to 50000 µg/kg	
		Pirimiphos Methyl		50 µg/kg to 50000 µg/kg	
		Iprobenphos		50 µg/kg to 50000 µg/kg	
k.	Tea & Related Products	<b>Pesticide Residues (Organochlorine pesticides)</b>			
		Aldrin	MOA/GC/01 , Rev No:01 Dated:15.03.2017 /AOAC 20 <sup>th</sup> Edition; 970.52	10 µg/kg to 50000 µg/kg	
		4,4'-DDD		10 µg/kg to 50000 µg/kg	
		4,4'-DDE		10 µg/kg to 50000 µg/kg	
		4,4'-DDT		10 µg/kg to 50000 µg/kg	
		Dieldrin		10 µg/kg to 50000 µg/kg	
		Alpha Endosulfan		10 µg/kg to 50000 µg/kg	
		Beta Endosulfan		10 µg/kg to 50000 µg/kg	
		Endosulfan sulfate		10 µg/kg to 50000 µg/kg	
		Endrin		10 µg/kg to 50000 µg/kg	
		Endrin aldehyde		10 µg/kg to 50000 µg/kg	
		Alpha- BHC		10 µg/kg to 50000 µg/kg	
		Beta-BHC		10 µg/kg to 50000 µg/kg	
		Gamma-BHC		10 µg/kg to 50000 µg/kg	
		Delta -BHC		10 µg/kg to 50000 µg/kg	
		Heptachlor		10 µg/kg to 50000 µg/kg	
		Heptachlor epoxide		10 µg/kg to 50000 µg/kg	
		<b>Pesticide Residues (Organophosphorous pesticides)</b>			
		Ethion		MOA/GC/01 , Rev No:01 Dated:15.03.2017 /AOAC 20 <sup>th</sup> Edition 970.52	50 µg/kg to 50000 µg/kg
		Methyl parathion			50 µg/kg to 50000 µg/kg
		Malathion			50 µg/kg to 50000 µg/kg
		Parathion			50 µg/kg to 50000 µg/kg
		Dichlorvos			50 µg/kg to 50000 µg/kg
		Chlorpyrifos Methyl			50 µg/kg to 50000 µg/kg
		Acephate			50 µg/kg to 50000 µg/kg
		Monocrotophos			50 µg/kg to 50000 µg/kg
		Chlorfevinfos			50 µg/kg to 50000 µg/kg

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		Profenofos		50 µg/kg to 50000 µg/kg
		Phosalone		50 µg/kg to 50000 µg/kg
		Dimethoate		50 µg/kg to 50000 µg/kg
		Triazophos		50 µg/kg to 50000 µg/kg
		Quinalphos		50 µg/kg to 50000 µg/kg
		Formothion		50 µg/kg to 50000 µg/kg
		Pirimiphos Methyl		50 µg/kg to 50000 µg/kg
		Iprobenphos		50 µg/kg to 50000 µg/kg
		<b>Pesticide Residues (Organochlorine pesticides):</b>		
		BHC-alpha	MOA/GC MSMS/01, Issue No :01 Dated: 16.01.2017	20 µg/kg to 50000 µg/kg
		Hexachlorobenzene		20 µg/kg to 50000 µg/kg
		BHC-beta		20 µg/kg to 50000 µg/kg
		BHC-gamma		20 µg/kg to 50000 µg/kg
		BHC-delta		20 µg/kg to 50000 µg/kg
		Parathion-methyl		20 µg/kg to 50000 µg/kg
		Heptachlor		20 µg/kg to 50000 µg/kg
		Aldrin		20 µg/kg to 50000 µg/kg
		Dicofol		20 µg/kg to 50000 µg/kg
		Heptachlor (isomer B)		20 µg/kg to 50000 µg/kg
		Chlordane-trans		20 µg/kg to 50000 µg/kg
		Endosulfan I		20 µg/kg to 50000 µg/kg
		Chlordane-cis (alpha)		20 µg/kg to 50000 µg/kg
		DDE-p,p'		20 µg/kg to 50000 µg/kg
		Dieldrin		20 µg/kg to 50000 µg/kg
		Endrin		20 µg/kg to 50000 µg/kg
		Endosulfan II		20 µg/kg to 50000 µg/kg
		DDD-p,p'		20 µg/kg to 50000 µg/kg
		DDT-o,p'		20 µg/kg to 50000 µg/kg
		Endrin aldehyde		20 µg/kg to 50000 µg/kg
		Endosulfan sulfate		20 µg/kg to 50000 µg/kg
		DDT-p,p'		20 µg/kg to 50000 µg/kg
		<b>Pesticide Residues –Pyrethroids:</b>		
		Resmethrin	MOA/GC MSMS/01, Issue No :01 Dated: 16.01.2017	20 µg/kg to 50000 µg/kg
		Permethrin		20 µg/kg to 50000 µg/kg

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Cypermethrin		20 µg/kg to 50000 µg/kg
		Fenvalerate		20 µg/kg to 50000 µg/kg
		Deltamethrin		20 µg/kg to 50000 µg/kg
		<b>Pesticide Residues-Organophosphorous pesticides:</b>		
		Fenitrothion	MOA/GC MSMS/01, Issue No :01 Dated: 16.01.2017	20 µg/kg to 50000 µg/kg
		Parathion		20 µg/kg to 50000 µg/kg
		Formothion		20 µg/kg to 50000 µg/kg
		Fonofos		20 µg/kg to 50000 µg/kg
		Acephate		20 µg/kg to 50000 µg/kg
		Monocrotophos		20 µg/kg to 50000 µg/kg
		Dimethoate		20 µg/kg to 50000 µg/kg
		Dichlorvos		20 µg/kg to 50000 µg/kg
		Methidathion		20 µg/kg to 50000 µg/kg
		Azinphos-methyl		20 µg/kg to 50000 µg/kg
		Malathion		20 µg/kg to 50000 µg/kg
		Triazophos		20 µg/kg to 50000 µg/kg
		Quinalphos		20 µg/kg to 50000 µg/kg
		Iprobenfos		20 µg/kg to 50000 µg/kg
		Diazinon		20 µg/kg to 50000 µg/kg
		Chlorfenvinphos		20 µg/kg to 50000 µg/kg
		Pirimifos-methyl		20 µg/kg to 50000 µg/kg
		Phosalone		20 µg/kg to 50000 µg/kg
		Chlorpyrifos-methyl		20 µg/kg to 50000 µg/kg
		Profenofos		20 µg/kg to 50000 µg/kg
		Ethion		20 µg/kg to 50000 µg/kg
		Chlorpyriphos		20 µg/kg to 50000 µg/kg
		<b>Pesticide Residues (residual group)</b>		
		Bromopropylate	MOA/GC MSMS/01, Issue No :01 Dated: 16.01.2017	20 µg/kg to 50000 µg/kg
		Pentachloroaniline		20 µg/kg to 50000 µg/kg
		Quintozene		20 µg/kg to 50000 µg/kg
		Carbaryl		20 µg/kg to 50000 µg/kg
		Piperonyl butoxide		20 µg/kg to 50000 µg/kg
		Spiromesifen		20 µg/kg to 50000 µg/kg

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection		
		Propargite		20 µg/kg to 50000 µg/kg		
		Fenpyroximate(E)		20 µg/kg to 50000 µg/kg		
		Fenazaquin		20 µg/kg to 50000 µg/kg		
		Thiamethoxam		20 µg/kg to 50000 µg/kg		
		2,4-D	MOA/LC MSMS/01, Issue No :01 Date: 16.01.2017	20 µg/kg to 50000 µg/kg		
		Cartap		20 µg/kg to 50000 µg/kg		
		Carbendazim		20 µg/kg to 50000 µg/kg		
		Glyphosate		20 µg/kg to 50000 µg/kg		
		Gluofosinate ammonium		20 µg/kg to 50000 µg/kg		
I.	Vegetable & vegetable products	<b>Pesticide Residues-Organochlorine pesticides</b>				
		Aldrin	MOA/GC/01 , Rev No:01 Dated:15.03.2017 /AOAC 20th Edition 970.52	10 µg/kg to 50000 µg/kg		
		4,4'-DDD		10 µg/kg to 50000 µg/kg		
		4,4'-DDE		10 µg/kg to 50000 µg/kg		
		4,4'-DDT		10 µg/kg to 50000 µg/kg		
				Dieldrin		10 µg/kg to 50000 µg/kg
				Alpha Endosulfan		10 µg/kg to 50000 µg/kg
				Beta Endosulfan		10 µg/kg to 50000 µg/kg
				Endosulfan sulfate		10 µg/kg to 50000 µg/kg
				Endrin		10 µg/kg to 50000 µg/kg
				Endrin aldehyde		10 µg/kg to 50000 µg/kg
				Alpha- BHC		10 µg/kg to 50000 µg/kg
				Beta-BHC		10 µg/kg to 50000 µg/kg
				Gamma-BHC		10 µg/kg to 50000 µg/kg
				Delta -BHC		10 µg/kg to 50000 µg/kg
				Heptachlor		10 µg/kg to 50000 µg/kg
				Heptachlor epoxide		10 µg/kg to 50000 µg/kg
				<b>Pesticide Residues-Organophosphorous pesticides</b>		
				Ethion	MOA/GC/01 , Rev No:01 Dated:15.03.2017 / AOAC 20th Edition 970.52	50 µg/kg to 50000 µg/kg
				Methyl parathion		50 µg/kg to 50000 µg/kg
		Malathion	50 µg/kg to 50000 µg/kg			
		Parathion		50 µg/kg to 50000 µg/kg		
		Dichlorvos		50 µg/kg to 50000 µg/kg		
		Chlorpyrifos Methyl		50 µg/kg to 50000 µg/kg		
		Acephate		50 µg/kg to 50000 µg/kg		

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		Monocrotophos		50 µg/kg to 50000 µg/kg
		Chlorfevinfos		50 µg/kg to 50000 µg/kg
		Profenofos		50 µg/kg to 50000 µg/kg
		Phosalone		50 µg/kg to 50000 µg/kg
		Dimethoate		50 µg/kg to 50000 µg/kg
		Triazophos		50 µg/kg to 50000 µg/kg
		Quinalphos		50 µg/kg to 50000 µg/kg
		Formothion		50 µg/kg to 50000 µg/kg
		Pirimiphos Methyl		50 µg/kg to 50000 µg/kg
		Iprobenphos		50 µg/kg to 50000 µg/kg
		<b>Pesticide Residues -Organochlorine pesticides</b>		
		BHC-alpha	MOA/GC MSMS/01, Issue No :01 Dated: 16.01.2017	10 µg/kg to 50000 µg/kg
		Hexachlorobenzene		10 µg/kg to 50000 µg/kg
		BHC-beta		10 µg/kg to 50000 µg/kg
		BHC-gamma		10 µg/kg to 50000 µg/kg
		BHC-delta		10 µg/kg to 50000 µg/kg
		Parathion-methyl		10 µg/kg to 50000 µg/kg
		Heptachlor		10 µg/kg to 50000 µg/kg
		Aldrin		10 µg/kg to 50000 µg/kg
		Dicofol		10 µg/kg to 50000 µg/kg
		Heptachlor (isomer B)		10 µg/kg to 50000 µg/kg
		Chlordane-trans		10 µg/kg to 50000 µg/kg
		Endosulfan I		10 µg/kg to 50000 µg/kg
		Chlordane-cis (alpha)		10 µg/kg to 50000 µg/kg
		DDE-p,p'		10 µg/kg to 50000 µg/kg
		Dieldrin		10 µg/kg to 50000 µg/kg
		Endrin		10 µg/kg to 50000 µg/kg
		Endosulfan II		10 µg/kg to 50000 µg/kg
		DDD-p,p'		10 µg/kg to 50000 µg/kg
		DDT-o,p'		10 µg/kg to 50000 µg/kg
		Endrin aldehyde		10 µg/kg to 50000 µg/kg
		Endosulfan sulfate		10 µg/kg to 50000 µg/kg
		DDT-p,p'		10 µg/kg to 50000 µg/kg
		<b>Pesticide Residues –Pyrethroids</b>		



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		Resmethrin	MOA/GC MSMS/01, Issue No :01 Dated: 16.01.2017	10 µg/kg to 50000 µg/kg
		Permethrin		10 µg/kg to 50000 µg/kg
		Cypermethrin		10 µg/kg to 50000 µg/kg
		Fenvalerate		10 µg/kg to 50000 µg/kg
		Deltamethrin		10 µg/kg to 50000 µg/kg
		<b>Pesticide Residues-Organophosphorous pesticides</b>		
		Fenitrothion	MOA/GC MSMS/01, Issue No :01 Dated: 16.01.2017	10 µg/kg to 50000 µg/kg
		Parathion		10 µg/kg to 50000 µg/kg
		Formothion		10 µg/kg to 50000 µg/kg
		Fonofos		10 µg/kg to 50000 µg/kg
		Acephate		10 µg/kg to 50000 µg/kg
		Monocrotophos		10 µg/kg to 50000 µg/kg
		Dimethoate		10 µg/kg to 50000 µg/kg
		Dichlorvos		10 µg/kg to 50000 µg/kg
		Methidathion		10 µg/kg to 50000 µg/kg
		Azinphos-methyl		10 µg/kg to 50000 µg/kg
		Malathion		10 µg/kg to 50000 µg/kg
		Triazophos		10 µg/kg to 50000 µg/kg
		Quinalphos		10 µg/kg to 50000 µg/kg
		Iprobenfos		10 µg/kg to 50000 µg/kg
		Diazinon		10 µg/kg to 50000 µg/kg
		Chlorfenvinphos		10 µg/kg to 50000 µg/kg
		Pirimifos-methyl		10 µg/kg to 50000 µg/kg
		Phosalone		10 µg/kg to 50000 µg/kg
		Chlorpyrifos-methyl		10 µg/kg to 50000 µg/kg
		Profenofos		10 µg/kg to 50000 µg/kg
		Ethion		10 µg/kg to 50000 µg/kg
		Chlorpyriphos		10 µg/kg to 50000 µg/kg
		<b>Pesticide Residues (residual group) :</b>		
		Bromopropylate	MOA/GC MSMS/01, Issue No :01 Dated: 16.01.2017	10 µg/kg to 50000 µg/kg
		Pentachloroaniline		10 µg/kg to 50000 µg/kg
		Quintozene		10 µg/kg to 50000 µg/kg
		Carbaryl		10 µg/kg to 50000 µg/kg
		Piperonyl butoxide		10 µg/kg to 50000 µg/kg

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<b>2.</b>	<b>Mycotoxins in Food Products</b>			
<b>a.</b>	<b>Bakery &amp; Confectionary products, Fruit &amp; Fruit products, Vegetable &amp; its products, Cereals, Pulses &amp; Cereal products, Herbs, Spices &amp; Condiments, Nut &amp; Nut products.</b>	Aflatoxin B1	MOA/HPLC/05 ,Rev No:01 Dated:10.09.2016	1.5 µg/kg to 100000 µg/kg
		Aflatoxin B2		0.5 µg/kg to 100000 µg/kg
		Aflatoxin G1		1.5 µg/kg to 100000 µg/kg
		Aflatoxin G2		0.5 µg/kg to 100000 µg/kg
<b>b.</b>	<b>Coffee, Cocoa products, Coconut products, Edible Oil &amp; Fat, Jams, Juices, Sauces &amp; Concentrates, Oil seeds &amp; by products, Tea,</b>	Aflatoxin B1	MOA/HPLC/05 ,Rev No:01 Dated:10.09.2016	1.5 µg/kg to 100000 µg/kg
		Aflatoxin B2		0.5 µg/kg to 100000 µg/kg
		Aflatoxin G1		1.5 µg/kg to 100000 µg/kg
		Aflatoxin G2		0.5 µg/kg to 100000 µg/kg
<b>c.</b>	<b>Cereals, Pulses &amp; Cereal products, Herbs, Spices &amp; Condiments</b>	Aflatoxin B1	MOA/LC MSMS/03,Issue No :01 Date: 16.01.2017	1.5 µg/kg to 500 µg/kg
		Aflatoxin B2		0.5 µg/kg to 500 µg/kg
		Aflatoxin G1		1.5 µg/kg to 500 µg/kg
		Aflatoxin G2		0.5 µg/kg to 500 µg/kg
<b>d.</b>	<b>Cereals, Pulses &amp; Cereal products</b>	Aflatoxin	MOA/KIT/01-by kit method	3 µg/kg to 100 µg/kg
		Ochratoxin	MOA/KIT/02 - by kit method	2.5 µg/kg to 25 µg/kg
<b>e.</b>	<b>Milk &amp; Dairy Products</b>	Aflatoxin M1	(MOA/KIT/04)	5 ng/kg to 100 ng/kg
<b>f.</b>	<b>Cereals, Pulses &amp; Cereal products, Herbs, Spices &amp; Condiments Nut &amp; Nut products</b>	Ochratoxin A	MOA/LC MSMS/03,Issue No :01 Date: 16.01.2017	10 µg/kg to 500 µg/kg

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<b>3.</b>	<b>Trace Metals Elements Food Products :</b>			
<b>a.</b>	<b>Bakery &amp; Confectionary Products, Alcoholic/ Non alcoholic Beverages, Cereals, Pulses &amp; Cereal products, Coconut &amp; its products, Edible Oil &amp; Fat, Fruit &amp; Fruit products, Herbs, Spices &amp; Condiments, Jams, Juices, Sauces &amp; Concentrates, Milk &amp; Dairy products, Nut &amp; Nut products, Tea , Vegetable &amp; its products</b>	Tin (as Sn)	MOA/ICP-OES/01,Rev No:01 Dated:15.03.2017	0.05 mg/kg to 100 mg/kg
		Lead (as Pb)		0.05 mg/kg to 100 mg/kg
		Copper (as Cu)		0.05 mg/kg to 100 mg/kg
		Arsenic (as As)		0.05 mg/kg to 100 mg/kg
		Zinc (as Zn)		0.05 mg/kg to 100 mg/kg
		Cadmium (as Cd)		0.05 mg/kg to 100 mg/kg
		Mercury (as Hg)		0.05 mg/kg to 100 mg/kg
		Aluminium (as Al)		0.05 mg/kg to 100 mg/kg
		Boron (as B)		0.05 mg/kg to 100 mg/kg
		Cobalt (as Co)		0.05 mg/kg to 100 mg/kg
		Chromium (as Cr)		0.05 mg/kg to 100 mg/kg
		Iron (as Fe)		0.05 mg/kg to 100 mg/kg
		Magnesium (as Mg)		0.05 mg/kg to 100 mg/kg
		Manganese (as Mn)		0.05 mg/kg to 100 mg/kg
		Nickel (as Ni)		0.05 mg/kg to 100 mg/kg
		Selenium (as Se)		0.05 mg/kg to 100 mg/kg
	Titanium (as Ti)		0.05 mg/kg to 100 mg/kg	
	Vanadium (as V)		0.05 mg/kg to 100 mg/kg	
<b>4.</b>	<b>Illegal Dyes in Food Products</b>			
<b>a.</b>	<b>Herbs &amp; Spices, Bakery &amp; Confectionary Products</b>	Sudan I	MOA/LC MSMS/01, Issue No :01 Date: 16.01.2017	10 µg/kg to 500 µg/kg
		Sudan II		10 µg/kg to 500 µg/kg
		Sudan III		10 µg/kg to 500 µg/kg
		Sudan IV		10 µg/kg to 500 µg/kg
		Rhodamine B		10 µg/kg to 500 µg/kg
		Sudan Red 7B		10 µg/kg to 500 µg/kg
		Sudan Orange G		10 µg/kg to 500 µg/kg
		Butter Yellow		10 µg/kg to 500 µg/kg
		Para Red		10 µg/kg to 500 µg/kg
		Sudan Red G		10 µg/kg to 500 µg/kg

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		Sudan Black B		10 µg/kg to 500 µg/kg
		Metanil Yellow		10 µg/kg to 500 µg/kg
<b>VII.</b>	<b>RESIDUES IN WATER</b>			
<b>1.</b>	<b>Drinking water, Water from purifiers, Surface water, Ground water, Packaged Drinking water, Swimming Pool water</b>	<b>Pesticide Residues -Organochlorine</b>		
		Aldrin	MOA/GC/01 , Rev No:01 Dated:15.03.2017	0.01 µg/l to 10000 µg/l
		4,4'-DDD		0.01 µg/l to 10000 µg/l
		4,4'-DDE		0.01 µg/l to 10000 µg/l
		4,4'-DDT		0.01 µg/l to 10000 µg/l
		Dieldrin		0.01 µg/l to 10000 µg/l
		Alpha Endosulfan		0.01 µg/l to 10000 µg/l
		Beta Endosulfan		0.01 µg/l to 10000 µg/l
		Endosulfan sulfate		0.01 µg/l to 10000 µg/l
		Endrin		0.01 µg/l to 10000 µg/l
		Endrin aldehyde		0.01 µg/l to 10000 µg/l
		Alpha- BHC		0.01 µg/l to 10000 µg/l
		Beta-BHC		0.01 µg/l to 10000 µg/l
		Gamma-BHC		0.01 µg/l to 10000 µg/l
		Delta -BHC		0.01 µg/l to 10000 µg/l
		Heptachlor		0.01 µg/l to 10000 µg/l
		Heptachlor epoxide		0.01 µg/l to 10000 µg/l
		<b>Pesticide Residues -Organophosphorous</b>		
		Ethion	MOA/GC/01 , Rev No:01 Dated:15.03.2017	0.05 µg/l to 50000 µg/l
		Methyl parathion		0.05 µg/l to 50000 µg/l
	Malathion		0.05 µg/l to 50000 µg/l	
	Parathion		0.05 µg/l to 50000 µg/l	
	Dichlorvos		0.05 µg/l to 50000 µg/l	
	Chlorpyrifos Methyl		0.05 µg/l to 50000 µg/l	
	Acephate		0.05 µg/l to 50000 µg/l	
	Monocrotophos		0.05 µg/l to 50000 µg/l	
	Chlorfevinfos		0.05 µg/l to 50000 µg/l	
	Profenofos		0.05 µg/l to 50000 µg/l	
	Phosalone		0.05 µg/l to 50000 µg/l	

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		Dimethoate		0.05 µg/l to 50000 µg/l
		Triazophos		0.05 µg/l to 50000 µg/l
		Quinalphos		0.05 µg/l to 50000 µg/l
		Formothion		0.05 µg/l to 50000 µg/l
		Pirimiphos Methyl		0.05 µg/l to 50000 µg/l
		Iprobenphos		0.05 µg/l to 50000 µg/l
		<b>Pesticide Residues –Organochlorine</b>		
		Aldrin	MOA/GC MSMS/01, Issue No :01 Dated: 16.01.2017	0.01 µg/l to 5000 µg/l
		BHC-alpha		0.01 µg/l to 5000 µg/l
		BHC-beta		0.01 µg/l to 5000 µg/l
		BHC-delta		0.01 µg/l to 5000 µg/l
		BHC-gamma		0.01 µg/l to 5000 µg/l
		Chlorpyrifos		0.01 µg/l to 5000 µg/l
		DDD-p,p'		0.01 µg/l to 5000 µg/l
		DDE-p,p'		0.01 µg/l to 5000 µg/l
		DDT-o,p'		0.01 µg/l to 5000 µg/l
		DDT-p,p'		0.01 µg/l to 5000 µg/l
		Dieldrin		0.01 µg/l to 5000 µg/l
		Endosulfan- alpha		0.01 µg/l to 5000 µg/l
		Endosulfan- beta		0.01 µg/l to 5000 µg/l
		Endosulfan sulfate		0.01 µg/l to 5000 µg/l
		Ethion		0.01 µg/l to 5000 µg/l
		Malathion		0.01 µg/l to 5000 µg/l
		Monocrotophos		0.01 µg/l to 5000 µg/l
		Parathion methyl		0.01 µg/l to 5000 µg/l
		Butachlor		0.01 µg/l to 5000 µg/l
		Phorate		0.01 µg/l to 5000 µg/l
		Malaoxon		0.01 µg/l to 5000 µg/l
		Alachlor		0.01 µg/l to 5000 µg/l
		2,4- D		0.01 µg/l to 5000 µg/l
		Atrazine		0.01 µg/l to 5000 µg/l
		Isoproturon		0.01 µg/l to 5000 µg/l
		<b>Poly Chlorinated Biphenyls (PCB)</b>		
		PCB 28	MOA/GC MSMS/02, Issue	0.5 µg/l to 5000 µg/l

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		PCB 52	No :01 Date: 16.01.2017	0.5 µg/l to 5000 µg/l
		PCB 101		0.5 µg/l to 5000 µg/l
		PCB 138		0.5 µg/l to 5000 µg/l
		PCB 153		0.5 µg/l to 5000 µg/l
		PCB 180		0.5 µg/l to 5000 µg/l
		<b>Trace Metals Elements</b>		
		Aluminum	MOA/ICP-OES/01,Rev	0.005 mg/l to 5000 mg/l
		Arsenic	No:01 Dated:15.03.2017	0.005 mg/l to 5000 mg/l
		Boron		0.005 mg/l to 5000 mg/l
		Cadmium		0.005 mg/l to 5000 mg/l
		Cobalt		0.005 mg/l to 5000 mg/l
		Chromium		0.005 mg/l to 5000 mg/l
		Copper		0.005 mg/l to 5000 mg/l
		Iron		0.005 mg/l to 5000 mg/l
		Mercury		0.005 mg/l to 5000 mg/l
		Magnesium		0.005 mg/l to 5000 mg/l
		Manganese		0.005 mg/l to 5000 mg/l
		Nickel		0.005 mg/l to 5000 mg/l
		Lead		0.005 mg/l to 5000 mg/l
		Selenium		0.005 mg/l to 5000 mg/l
		Tin		0.005 mg/l to 5000 mg/l
		Titanium		0.005 mg/l to 5000 mg/l
		Vanadium		0.005 mg/l to 5000 mg/l
		Zinc		0.005 mg/l to 5000 mg/l
<b>2.</b>	<b>Waste Water/Effluent</b>	<b>Pesticide Residues-Organochlorine pesticides</b>		
		Aldrin	APHA 23 <sup>rd</sup> Edition 6630 B	0.01 µg/l to 10000 µg/l
		4,4'-DDD	MOA/GC/01 Rev No:01	0.01 µg/l to 10000 µg/l
		4,4'-DDE	Dated:15.03.2017	0.01 µg/l to 10000 µg/l
		4,4'-DDT		0.01 µg/l to 10000 µg/l
		Dieldrin		0.01 µg/l to 10000 µg/l
		Alpha Endosulfan		0.01 µg/l to 10000 µg/l
		Beta Endosulfan		0.01 µg/l to 10000 µg/l
		Endosulfan sulfate		0.01 µg/l to 10000 µg/l
		Endrin		0.01 µg/l to 10000 µg/l

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		Endrin aldehyde		0.01 µg/l to 10000 µg/l
		Alpha- BHC		0.01 µg/l to 10000 µg/l
		Beta-BHC		0.01 µg/l to 10000 µg/l
		Gamma-BHC		0.01 µg/l to 10000 µg/l
		Delta -BHC		0.01 µg/l to 10000 µg/l
		Heptachlor		0.01 µg/l to 10000 µg/l
		Heptachlor epoxide		0.01 µg/l to 10000 µg/l
		<b>Pesticide Residues (Organophosphorus pesticides)</b>		
		Ethion	APHA 23 <sup>rd</sup> Edition 6630 B MOA/GC/01 Rev No:01 Dated:15.03.2017	0.05 µg/l to 50000 µg/l
		Methyl parathion		0.05 µg/l to 50000 µg/l
		Malathion		0.05 µg/l to 50000 µg/l
		Parathion		0.05 µg/l to 50000 µg/l
		Dichlorvos		0.05 µg/l to 50000 µg/l
		Chlorpyrifos Methyl		0.05 µg/l to 50000 µg/l
		Acephate		0.05 µg/l to 50000 µg/l
		Monocrotophos		0.05 µg/l to 50000 µg/l
		Chlorfevinfos		0.05 µg/l to 50000 µg/l
		Profenofos		0.05 µg/l to 50000 µg/l
		Phosalone		0.05 µg/l to 50000 µg/l
		Dimethoate		0.05 µg/l to 50000 µg/l
		Triazophos		0.05 µg/l to 50000 µg/l
		Quinalphos		0.05 µg/l to 50000 µg/l
		Formothion		0.05 µg/l to 50000 µg/l
		Pirimiphos Methyl		0.05 µg/l to 50000 µg/l
		Iprobenphos		0.05 µg/l to 50000 µg/l
		<b>Trace Metals Elements</b>		
		Aluminum	APHA 23 <sup>rd</sup> Edition 3120 B / MOA/ICP-OES/01,Rev No:01 Dated:15.03.2017	0.005 mg/l to 5000 mg/l
		Arsenic		0.005 mg/l to 5000 mg/l
		Boron		0.005 mg/l to 5000 mg/l
		Cadmium		0.005 mg/l to 5000 mg/l
		Cobalt		0.005 mg/l to 5000 mg/l
		Chromium		0.005 mg/l to 5000 mg/l
		Copper		0.005 mg/l to 5000 mg/l
		Iron	0.005 mg/l to 5000 mg/l	

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		Mercury		0.005 mg/l to 5000 mg/l
		Magnesium		0.005 mg/l to 5000 mg/l
		Manganese		0.005 mg/l to 5000 mg/l
		Nickel		0.005 mg/l to 5000 mg/l
		Lead		0.005 mg/l to 5000 mg/l
		Selenium		0.005 mg/l to 5000 mg/l
		Tin		0.005 mg/l to 5000 mg/l
		Titanium		0.005 mg/l to 5000 mg/l
		Vanadium		0.005 mg/l to 5000 mg/l
		Zinc		0.005 mg/l to 5000 mg/l
<b>VIII.</b>	<b>WATER</b>			
<b>1.</b>	<b>Drinking water, Water from purifiers, Surface water, Ground water, Packaged Drinking water</b>	Color	IS 3025 (Part-4)	1 Color unit to 500 Color units
		Turbidity	IS 3025 (Part -10)	0.1 NTU to 1500 NTU
		pH	IS 3025 (Part-11)	1.00 to 14.00
		Total hardness (as CaCO <sub>3</sub> )	IS 3025 (Part-21)	1 mg/l to 1000 mg/l
		Calcium (as Ca)	IS 3025 (Part - 40)	1 mg/l to 1000 mg/l
		Magnesium (as Mg)	IS 3025(Part - 46)	1 mg/l to 1000 mg/l
		Iron (as Fe)	APHA 23 <sup>rd</sup> Edn-3500 Fe-B	0.02 mg/l to 500 mg/l
		Chloride (as Cl <sup>-</sup> )	IS 3025 (Part - 32)	1 mg/l to 1000 mg/l
		Residual free chlorine	IS 3025 (Part - 26)	0.2 mg/l to 100 mg/l
		Total Dissolved solids	IS 3025 (Part - 16)	10 mg/l to 5000 mg/l
		Sulphate (as SO <sub>4</sub> <sup>2-</sup> )	APHA 23 <sup>rd</sup> Edn-4500 SO <sub>4</sub> E	2.0 mg/l to 100 mg/l
		Nitrate (as NO <sub>3</sub> <sup>-</sup> )	APHA 23 <sup>rd</sup> Edn4500 NO <sub>3</sub> B	0.5 mg/l to 100 mg/l
		Fluoride (as F)	APHA 23 <sup>rd</sup> Edn4500 F-(F)	0.2 mg/l to 200 mg/l
		Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (Part - 23)	1 mg/l to 1000 mg/l
		Total solids	IS 3025(Part - 16)	10 mg/l to 5000 mg/l
	Conductivity	APHA 23 <sup>rd</sup> Edition 2510 B	1 µS/cm to 20000 µS/cm	
	Silica (as SiO <sub>2</sub> )	APHA 23 <sup>rd</sup> Edition 4500 C/ IS 3025 (Part-35)	2 mg/l to 200 mg/l	



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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
2.	Swimming Pool water	Color	IS 3025 (Part - 4)	1 units to 500 units
		Turbidity	IS 3025 (Part - 10)	0.1 NTU to 1500 NTU
		pH	IS 3025 (Part - 11)	1-14
		Total hardness (as CaCO <sub>3</sub> )	IS 3025 (Part - 21)	1 mg/l to 1000 mg/l
		Calcium (as Ca)	IS 3025 (Part - 40)	1 mg/l to 1000 mg/l
		Magnesium (as Mg)	IS 3025 (Part - 46)	1 mg/l to 1000 mg/l
		Iron (as Fe)	APHA 23 <sup>rd</sup> Edition 3500 Fe-B	0.02 mg/l to 1000 mg/l
		Chloride (as Cl <sup>-</sup> )	IS 3025 (Part - 32)	1 mg/l to 5000 mg/l
		Residual free chlorine	IS 3025 (Part - 26)	0.1 mg/l to 100 mg/l
		Total Dissolved solids	IS 3025 (Part - 16)	10 mg/l to 5000mg/l
		Alkalinity(as CaCO <sub>3</sub> )	IS 3025 (Part - 23)	1 mg/l to 1000mg/l
		Aluminum(as Al)	IS 3025 (Part - 55)	0.05 mg/l to 1000 mg/l
		Oxygen absorbed in 4 hrs at 37°C	IS 3025 (Part - 63)	0.4 mg/l to 10 mg/l
		Conductivity	APHA 23 <sup>rd</sup> Edition 2510 B	1 µS/cm to 20000 µS/cm
Silica (as SiO <sub>2</sub> )	APHA 23 <sup>rd</sup> Edition 4500 C	2 mg/l to 200 mg/l		
<b>IX.</b>	<b>MARINE/ AQUACULTURE FOOD PRODUCTS</b>			
1.	Fish & Fish products ,Prawn & prawn products, Shrimps	Total volatile Base Nitrogen (TVBN)	FSSAI Manual onFish & fish products,S.No 1.2	2 mg/100g to 200 mg/ 100g
		Salt as NaCl		
		pH	FSSAI Manual onMeat & meat products, S.No 3.1	1 to14
		Moisture	FSSAI Manual onFish & fish products,S.No 2.2	0.1% to 90%
		Acid insoluble ash	FSSAI Manual onFish & fish products,S.No 2.4	0.01% to 10%
		Protein	MOA/CH/N ,Issue No. 1, Dated 26.09.2016	0.1% to 60%
		Total Fat	FSSAI Manual on Meat & meat products, S.No 2.1	0.1% to 50%

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		Residual Sulphite (as SO <sub>2</sub> )	AOAC 20 <sup>th</sup> Edition, 962.16	5 mg/kg to 2000 mg/kg
		Total Phosphate P <sub>2</sub> O <sub>5</sub>	FSSAI Manual on Meat & meat products, S.No 1.4	0.05% to 5%
		Histamine	MOA/KIT/03- by kit method	5 mg/kg to 40 mg/kg
		<b>Trace Metal elements :</b>		
		Tin(as Sn)	MOA/ICP-OES/01,Rev No:01 Dated:15.03.2017	0.05 mg/kg to 100 mg/kg
		Lead (as Pb)		0.05 mg/kg to 100 mg/kg
		Copper (as Cu)		0.05 mg/kg to 100 mg/kg
		Arsenic (as As)		0.05 mg/kg to 100 mg/kg
		Zinc(as Zn)		0.05 mg/kg to 100 mg/kg
		Cadmium (as Cd)		0.05 mg/kg to 100 mg/kg
		Mercury (as Hg)		0.05 mg/kg to 100 mg/kg
		Aluminium (as Al)		0.05 mg/kg to 100 mg/kg
		Boron (as B)		0.05 mg/kg to 100 mg/kg
		Cobalt (as Co)		0.05 mg/kg to 100 mg/kg
		Chromium (as Cr)		0.05 mg/kg to 100 mg/kg
		Iron (as Fe)		0.05 mg/kg to 100 mg/kg
		Magnesium (as Mg)		0.05 mg/kg to 100 mg/kg
		Manganese (as Mn)		0.05 mg/kg to 100 mg/kg
		Nickel (as Ni)		0.05 mg/kg to 100 mg/kg
		Selenium (as Se)		0.05 mg/kg to 100 mg/kg
		Titanium (as Ti)		0.05 mg/kg to 100 mg/kg
		Vanadium(as V)		0.05 mg/kg to 100 mg/kg
		<b>Antibiotic Residue</b>		
		Chloramphenicol	MOA/LC MSMS/04, Issue No :01 Date: 16.01.2017	0.09 µg/kg to 100 µg/kg
		<b>Nitrofurans Metabolites</b>		
		AMOZ	MOA/LC MSMS/04, Issue No :01 Date: 16.01.2017	0.5 µg/kg to 500 µg/kg
		1-Aminohydantoin (AHD)		0.5 µg/kg to 500 µg/kg
		Semicarbazide (SEM)		0.5 µg/kg to 500 µg/kg
		3-Amino- 2 Oxazolidilone (AOZ)		0.5 µg/kg to 500 µg/kg
		<b>Tetracyclines</b>		
		Tetracycline	MOA/LC MSMS/04, Issue	10 µg/kg to 1000 µg/kg

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		Oxytetracycline	No :01 Date: 16.01.2017	10 µg/kg to 1000 µg/kg
		Chlortetracycline		10 µg/kg to 1000 µg/kg
		Doxycycline		10 µg/kg to 1000 µg/kg
		4-Epitetracycline		10 µg/kg to 1000 µg/kg
		<b>Sulfonamides</b>		
		Sulfadiazin	MOA/LC MSMS/04, Issue	10 µg/kg to 500 µg/kg
		Sulfathiazole	No :01 Date: 16.01.2017	10 µg/kg to 500 µg/kg
		Sulfamerazin		10 µg/kg to 500 µg/kg
		Sulfamethizole		10 µg/kg to 500 µg/kg
		Sulfadimidin/ Sulfamethazin		10 µg/kg to 500 µg/kg
		Sulfamethoxy Pyridazin		10 µg/kg to 500 µg/kg
		Sulfachloropyridazin		10 µg/kg to 500 µg/kg
		Sulfamethoxazole		10 µg/kg to 500 µg/kg
		Sulfadimethoxine		10 µg/kg to 500 µg/kg
		Sulfadoxin		10 µg/kg to 500 µg/kg
		<b>Quinolones</b>		
		Oxolinic Acid	MOA/LC MSMS/04, Issue	10 µg/kg to 1000 µg/kg
		Flumequine	No :01 Date: 16.01.2017	10 µg/kg to 1000 µg/kg
		Enrofloxacin		10 µg/kg to 1000 µg/kg
		Ciprofloxacin		10 µg/kg to 1000 µg/kg
		<b>Residual residue</b>	MOA/LC MSMS/04, Issue	10 µg/kg to 5000 µg/kg
		Pendimethalin	No :01 Date: 16.01.2017	10 µg/kg to 5000 µg/kg
		Prothiofos		10 µg/kg to 5000 µg/kg
		Malachite Green		10 µg/kg to 5000 µg/kg
		Leucocrystal Violet		10 µg/kg to 5000 µg/kg
		Fenthion		10 µg/kg to 5000 µg/kg
		Ethoxyquin		10 µg/kg to 5000 µg/kg
		<b>Poly Chlorinated Biphenyls (PCB)</b>		
		PCB No 28	MOA/GC MSMS/02, Issue	10 µg/kg to 5000 µg/kg
		PCB No 52	No :01 Date: 16.01.2017	10 µg/kg to 5000 µg/kg
		PCB No 101		10 µg/kg to 5000 µg/kg
		PCB No 138		10 µg/kg to 5000 µg/kg
		PCB No 153		10 µg/kg to 5000 µg/kg

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		PCB No 180		10 µg/kg to 5000 µg/kg

**NOTE:** The Laboratory has demonstrated competence for the stated scope for **WATER**. This however **does not fully cover** the specification requirements of **BIS for the Packaged Drinking Water as per IS:14543 and the Packaged Natural Mineral Water IS:13428**.