

**Laboratory** National Collateral Management Services Limited-Commgrade-  
Testing Services, Area Laboratory, Regent Garment & Apparel Park,  
Block  
No.4, Unit No.G3, No.64/1/1, Jessore Road (East), Barasat Police  
Station, Barasat, Dist-24-Praganas (East), Kolkata, West Bengal

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**Certificate Number** TC-7518

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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.	ANIMAL FOOD & FEED			
1.	Pet Food	Aerobic Colony Count/ Bacterial Count/ Total Plate Count	IS 5402 ISO 4833 (Part -1) US FDA BAM	≥10CFU/g
		Yeast & Mould	IS 5403 ISO 21527 (Part-1) ISO 21527 (Part-2) US FDA BAM	≥10CFU/g
		Escherichia coli	IS 5887(Part-1) ISO 16649	≥10CFU/g
		Escherichia coli	IS 5887(Part-1) ISO 7251 / USFDA BAM	<0.3 To >110 MPN/g Present/Absent per 25 g
		Coliform	IS 5401(Part-1) ISO 4832/ US FDA BAM	≥10CFU/g
		Coliform	IS 5401(Part-2) ISO 4831/ US FDA BAM	<0.3 To >110 MPN/g. Present/Absent per 25 g
		Staphylococcus aureus	IS 5887(Part-2) IS 5887(Part-8) ISO 6888 (Part-1) US FDA BAM	≥10CFU/g
		Staphylococcus aureus	IS 5887(Part-2) ISO 6888(Part-3)	Present/Absent per 25 g
		Salmonella	IS 5887(Part-3) ISO 6579/ US FDA BAM	Present/Absent per 25 g
		Shigella	IS 5887(Part-7) ISO 21567	Present/Absent per 25 g
		Listeria monocytogens	ISO 11290 (Part-1)	Present/Absent per 25 g

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			IS 14988 (Part-1)	
		Listeria monocytogens	ISO 11290(Part-2) IS 14988(Part-2)	≥10CFU/g
		Bacillus cereus	IS 5887(Part-6) / ISO 7932	≥10CFU/g
		Vibrio cholera	IS 5887(Part -5) US FDA BAM	Present/Absent per 25g
		Vibrio parahaemolyticus	IS 5887(Part -5) US FDA BAM	Present/Absent per 25 g
		Feacal Streptococci	IS 5887(Part-2)	Present/Absent per 25 g
		Feacal Streptococci	IS 5887(Part-2)	0.3 to >110 MPN/g
		Enterobacteriaceae	ISO 21528(Part-2)	≥10CFU/g
		Enterobacteriaceae	ISO 21528(Part-1)	0.3 to >110 MPN/g
		Enterobacteriaceae	ISO 21528(Part-1)	Present/Absent per 25 g
		Clostridium perfringens	ISO 7937	≥10CFU/g
		Sulfite reducing anaerobic clostridia / spores	ISO 15213	≥10CFU/g
<b>2.</b>	<b>Guar Meal</b>	Aerobic Colony Count Bacterial Count Total Plate Count	IS 5402 ISO 4833(Part -1) US FDA BAM	≥10CFU/g
		Yeast & Mould	IS 5403 ISO 21527(Part-1) ISO 21527(Part-2) US FDA BAM	≥10CFU/g
		Escherichia coli	IS 5887(Part-1) ISO 16649 (Part-2)	≥10CFU/g
		Escherichia coli	IS 5887(Part-1) ISO 7251 / USFDA BAM	<0.3 To >110 MPN/g Present/Absent per 25 g
		Coliform	IS 5401(Part-1) ISO 4832 / US FDA BAM	≥10CFU/g
		Coliform	IS 5401(Part-2)	<0.3 To >110 MPN/g

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			ISO 4831 / US FDA BAM	Present/Absent per 25 g
		Staphylococcus aureus	IS 5887(Part-2) IS 5887(Part-8) ISO 6888(Part-1) US FDA BAM	≥10CFU/g
		Staphylococcus aureus	IS 5887(Part-2) ISO 6888(Part-3)	Present/Absent per 25 g
		Salmonella	IS 5887(Part-3) ISO 6579 / US FDA BAM	Present/Absent per 25 g
		Shigella	IS 5887(Part-7)/ISO 21567	Present/Absent per 25 g
		Listeria monocytogenes	ISO 11290(Part-1) IS 14988(Part-1)	Present/Absent per 25 g
		Listeria monocytogenes	ISO 11290(Part-2) IS 14988(Part-2)	≥10CFU/g
		Bacillus cereus	IS 5887(Part-6) / ISO 7932	≥10CFU/g
		Vibrio cholera	IS 5887(Part -5) US FDA BAM	Present/Absent per 25 g
		Vibrio parahaemolyticus	IS 5887(Part -5) US FDA BAM	Present/Absent per 25 g
		Feacal Streptococci	IS 5887(Part-2)	Present/Absent per 25 g
		Feacal Streptococci	IS 5887(Part-2)	<0.3 to >110 MPN/g
		Enterobacteriaceae	ISO 21528(Part-2)	≥10CFU/g
		Enterobacteriaceae	ISO 21528(Part-1)	<0.3 to >110 MPN/g
		Enterobacteriaceae	ISO 21528(Part-1)	Present/Absent per 25 g
		Clostridium perfringens	ISO 7937	≥10CFU/g
		Sulfite reducing anaerobic clostridia / spores	ISO 15213	≥10CFU/g
3.	<b>Poultry Feed Additives</b>	Aerobic Colony Count Bacterial Count Total Plate Count	IS 5402 ISO 4833(Part -1) US FDA BAM	≥10CFU/g

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		Yeast & Mould	IS 5403 ISO 21527(Part-1) ISO 21527(Part-2) US FDA BAM	≥10CFU/g
		Escherichia coli	IS 5887(Part-1) ISO 16649(Part-2)	≥10CFU/g
		Escherichia coli	IS 5887(Part-1) ISO 7251/ US/ FDA BAM	<0.3 To >110 MPN/g Present/Absent per 25 g
		Coliform	IS 5401(Part-1) ISO 4832/ US FDA BAM	≥10CFU/g
		Coliform	IS 5401(Part-2) ISO 4831/ US FDA BAM	<0.3 To >110 MPN/g Present/Absent per 25 g
		Staphylococcus aureus	IS 5887(Part-2) IS 5887(Part-8) ISO 6888(Part-1) US FDA BAM	≥10CFU/g
		Staphylococcus aureus	IS 5887(Part-2) ISO 6888(Part-3)	Present/Absent per 25 g
		Salmonella	IS 5887(Part-3) ISO 6579 / US FDA BAM	Present/Absent per 25 g
		Shigella	IS 5887(Part-7)/ISO 21567	Present/Absent per 25 g
		Listeria monocytogenes	ISO 11290(Part-1) IS 14988(Part-1)	Present/Absent per 25 g
		Listeria monocytogenes	ISO 11290(Part-2) IS 14988(Part-2)	≥10CFU/g
		Bacillus cereus	IS 5887(Part-6)/ ISO 7932	≥10CFU/g
		Vibrio cholera	IS 5887(Part -5) US FDA BAM	Present/Absent per 25 g
		Vibrio parahaemolyticus	IS 5887(Part -5) US FDA BAM	Present/Absent per 25 g
		Feacal Streptococci	IS 5887(Part-2)	Present/Absent per 25 g
		Feacal Streptococci	IS 5887(Part-2)	<0.3 to >110 MPN/g

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		Enterobacteriaceae	ISO 21528(Part-2)	≥10CFU/g
		Enterobacteriaceae	ISO 21528(Part-1)	<0.3 to >110 MPN/g
		Enterobacteriaceae	ISO 21528(Part-1)	Present/Absent per 25 g
		Clostridium perfringens	ISO 7937	≥10CFU/g
		Sulfite reducing anaerobic clostridia / spores	ISO 15213	≥10CFU/g
<b>II.</b>	<b>FOOD AND AGRICULTURAL PRODUCTS</b>			
<b>1.</b>	<b>Bakery and Confectionery Products</b>	Aerobic Colony Count Bacterial Count Total Plate Count	IS 5402 ISO 4833(Part-1) US FDA BAM	≥10CFU/g
		Yeast & Mould	IS 5403 ISO 21527(Part-1) ISO 21527(Part-2) US FDA BAM	≥10CFU/g
		Escherichia coli	IS 5887(Part-1) ISO 16649(Part-2)	≥10CFU/g
		Escherichia coli	IS 5887(Part-1)/ ISO 7251	Present/Absent per 25 g
		Escherichia coli	IS 5887(Part-1) ISO 7251/ US FDA BAM	<0.3 to >110 MPN/g
		Coliform	IS 5401(Part-1) ISO 4832/ US FDA BAM	≥10CFU/g
		Coliform	IS 5401(Part-2) ISO 4831/ US FDA BAM	<0.3 to >110 MPN/g
		Coliform	ISO 4831	Present/Absent per 25 g
		Staphylococcus aureus	IS 5887(Part-2) IS 5887(Part-8) ISO 6888(Part-1) US FDA BAM	≥10CFU/g
		Staphylococcus aureus	IS 5887(Part-2) ISO 6888(Part-3)	Present/Absent per 25 g

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		Salmonella	IS 5887(Part-3) ISO 6579/ US FDA BAM	Present/Absent per 25 g
		Shigella	IS 5887(Part-7)/ISO 21567	Present/Absent per 25 g
		Lactic Acid Bacteria	ISO 15214	≥10CFU/g
		Listeria monocytogens	ISO 11290(Part-1) IS 14988(Part-1)	Present/Absent per 25 g
		Listeria monocytogens	ISO 11290(Part-2) IS 14988(Part-2)	≥10CFU/g
		Bacillus cereus	IS 5887(Part-6)/ ISO 7932	≥10CFU/g
		Vibrio cholera	IS 5887(Part-5) US FDA BAM	Present/Absent per 25 g
		Vibrio parahaemolyticus	IS 5887(Part-5) US FDA BAM	Present/Absent per 25 g
		Feacal Streptococci	IS 5887(Part-2)	Present/Absent per 25 g
		Feacal Streptococci	IS 5887(Part-2)	<0.3 to >110 MPN/g
		Enterobacteriaceae	ISO 21528(Part-2)	≥10CFU/g
		Enterobacteriaceae	ISO 21528(Part-1)	<0.3 to >110 MPN/g
		Enterobacteriaceae	ISO 21528(Part-1)	Present/Absent per 25 g
		Clostridium perfringens	ISO 7937	≥10CFU/g
		Sulfite reducing anaerobic clostridia / spores	ISO 15213	≥10 CFU/g
<b>2.</b>	<b>Beverages (Alcoholic / Non alcoholic)</b>	Aerobic Colony Count Bacterial Count Total Plate Count	IS 5402 ISO 4833(Part-1) US FDA BAM	≥1 CFU/ml
		Yeast & Mould	IS 5403 ISO 21527(Part-1) ISO 21527(Part-2) US FDA BAM	≥1 CFU/ml
		Escherichia coli	IS 5887(Part-1)	≥1 CFU/ml

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			ISO 16649 (Part-2)	
		Escherichia coli	IS 5887(Part-1) ISO 7251	Present/Absent per 25 ml
		Escherichia coli	IS 5887(Part-1) ISO 7251/ US FDA BAM	<0.3 to >110 MPN/ml
		Coliform	IS 5401(Part-1) ISO 4832/ US FDA BAM	≥1 CFU/ml
		Coliform	IS 5401(Part-2)/ ISO 4831/ US FDA BAM	<0.3 to >110 MPN/ml
		Coliform	ISO 4831	Present/Absent per 25 ml
		Staphylococcus aureus	IS 5887(Part-2) IS 5887(Part-8 Sec-1) ISO 6888(Part-1) US FDA BAM	≥1 CFU/ml
		Staphylococcus aureus	IS 5887(Part-2) ISO 6888(Part-3)	Present/Absent per 25 ml
		Salmonella	IS 5887(Part-3) ISO 6579/ US FDA BAM	Present/Absent per 25 ml
		Shigella	IS 5887(Part-7) ISO 21567	Present/Absent per 25 ml
		Lactic Acid Bacteria	ISO 15214	≥1 CFU/ml
		Listeria monocytogens	ISO 11290(Part -1) IS 14988(Part-1)	Present/Absent per 25 ml
		Listeria monocytogens	ISO 11290(Part-2) IS 14988(Part-2)	≥1 CFU/ml
		Bacillus cereus	IS 5887(Part-6)/ ISO 7932	≥1 CFU/ml
		Vibrio cholera	IS 5887(Part-5) US FDA BAM	Present/Absent per 25 ml
		Vibrio parahaemolyticus	IS 5887(Part-5) US FDA BAM	Present/Absent per 25 ml
		Feacal Streptococci	IS 5887(Part-2)	Present/Absent per 25 ml

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		Feecal Streptococci	IS 5887(Part-2)	<0.3 to >110 MPN/ ml
		Enterobacteriaceae	ISO 21528(Part-2)	≥1 CFU/ml
		Enterobacteriaceae	ISO 21528(Part-1)	<0.3 to >110 MPN/ ml
		Enterobacteriaceae	ISO 21528(Part-1)	Present/Absent per 25 ml
		Clostridium perfringens	ISO 7937	≥1 CFU/ml
		Sulfite reducing anaerobic clostridia / Spores	ISO 15213	≥1 CFU/ml
		Thermophilic bacteria count	IS 4251	≥1 CFU/ml
		Proteolytic bacteria count	IS 4251	≥1 CFU/ml
		Lipolytic bacteria count	IS 4251	≥1 CFU/ml
		Aciduric Flat sour organisms as Bacillus coagulans	APHA	≥10 CFU/10g ≥1 CFU/ml
		Psychrotropic microorganisms	ISO 17410 IS 1479(Part-3)	≥10 CFU/ml
<b>3.</b>	<b>Canned Foods and Processed Foods</b>	Aerobic Colony Count Bacterial Count Total Plate Count	IS 5402 ISO 4833(Part-1) US FDA BAM	≥10 CFU/g
		Yeast & Mould	IS 5403 ISO 21527(Part-1) ISO 21527(Part-2) US FDA BAM	≥10 CFU/g
		Escherichia coli	IS 5887(Part-1) ISO 16649(Part-2)	≥10 CFU/g
		Escherichia coli	IS 5887(Part-1)/ ISO 7251	Present/Absent per g
		Escherichia coli	IS 5887(Part-1)/ ISO 7251 US FDA BAM	<0.3 to >110 MPN/ml
		Coliform	IS 5401(Part-1)/ ISO 4832 US FDA BAM	≥10 CFU/g



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		Coliform	IS 5401(Part-2)/ ISO 4831 US FDA BAM	<0.3 to >110 MPN/g
		Coliform	ISO 4831	Present/Absent per 25 g
		Staphylococcus aureus	IS 5887(Part-2) IS 5887(Part-8) ISO 6888(Part-1) US FDA BAM	≥10 CFU/g
		Staphylococcus aureus	IS 5887(Part-2) ISO 6888(Part-3)	Present/ Absent per 25 g
		Salmonella	IS 5887(Part-3) ISO 6579/ US FDA BAM	Present/Absent per 25 g
		Shigella	IS 5887(Part-7)/ISO 21567	Present/Absent per 25 g
		Lactic Acid Bacteria	ISO 15214	≥10 CFU/g
		Listeria monocytogens	ISO 11290(Part-1) IS 14988(Part-1)	Present/Absent per 25 g
		Listeria monocytogens	ISO 11290(Part-2) IS 14988(Part-2)	≥10 CFU/g
		Bacillus cereus	IS 5887(Part-6)/ ISO 7932	≥10 CFU/g
		Vibrio cholera	IS 5887(Part-5) US FDA BAM	Present/Absent per 25 g
		Vibrio parahaemolyticus	IS 5887(Part-5) US FDA BAM	Present/Absent per 25 g
		Feacal Streptococci	IS 5887(Part-2)	Present/Absent per 25 g
		Feacal Streptococci	IS 5887(Part-2)	<0.3 to >110 MPN/g
		Enterobacteriaceae	ISO 21528(Part-2)	≥10 CFU/g
		Enterobacteriaceae	ISO 21528(Part-1)	<0.3 to >110 MPN/g
		Enterobacteriaceae	ISO 21528(Part-1)	Present/Absent per 25 g
		Clostridium perfringens	ISO 7937	≥10 CFU/g
		Sulfite reducing anaerobic Clostridia/ Spores	ISO 15213	≥10 CFU/g
		Incubation Test	IS 2860/US FDA BAM	Qualitative

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		Aciduric flat sour organisms (as Bacillus coagulans)	APHA	≥10 cfu/10g
		Mesophillic aerobic spore formers	APHA	1 CFU/g to 150000 CFU/g
		Anaerobic mesophillic spore count	APHA	≥10 CFU/g ≥1 CFU/ml
4.	<b>Cereal, Pulses and their Products</b>	Aerobic Colony Count Bacterial Count Total Plate Count	IS 5402 ISO 4833(Part-1) US FDA BAM	≥10 CFU/g
		Yeast & Mould	IS 5403 ISO 21527(Part-1) ISO 21527(Part-2) US FDA BAM	≥10 CFU/g
		Escherichia coli	IS 5887(Part-1) ISO 16649(Part-2)	≥10 CFU/g
		Escherichia coli	IS 5887(Part-1)/ISO 7251	Present/Absent per 25 g
		Escherichia coli	IS 5887(Part-1)/ ISO 7251/ US FDA BAM	<0.3 to >110 MPN/g
		Coliform	IS 5401(Part-1)/ ISO 4832/ US FDA BAM	≥10 CFU/g
		Coliform	IS 5401(Part-2) / ISO 4831/ US FDA BAM	<0.3 to >110 MPN/g
		Coliform	ISO 4831	Present/Absent per 25 g
		Staphylococcus aureus	IS 5887(Part-2) IS 5887(Part-8) ISO 6888(Part-1) US FDA BAM	≥10 CFU/g
		Staphylococcus aureus	IS 5887(Part-2) ISO 6888(Part-3)	Present/Absent per 25 g
		Salmonella	IS 5887(Part-3)/ ISO 6579/ US FDA BAM	Present/Absent per 25 g

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		Shigella	IS 5887(Part-7)/ISO 21567	Present/Absent per 25 g
		Listeria monocytogens	ISO 11290(Part-1) IS 14988(Part-1)	Present/Absent per 25 g
		Listeria monocytogens	ISO 11290(Part-2) IS 14988(Part-2)	≥10 CFU/g
		Bacillus cereus	IS 5887(Part-6)/ ISO 7932	≥10 CFU/g
		Vibrio cholera	IS 5887(Part-5) US FDA BAM	Present/Absent per 25 g
		Vibrio parahaemolyticus	IS 5887(Part-5) US FDA BAM	Present/Absent per 25 g
		Feacal Streptococci	IS 5887(Part-2)	Present/Absent per 25 g
		Feacal Streptococci	IS 5887(Part-2)	<0.3 to >110 MPN/g
		Enterobacteriaceae	ISO 21528(Part-2)	≥10 CFU/g
		Enterobacteriaceae	ISO 21528(Part-1)	<0.3 to >110 MPN/g
		Enterobacteriaceae	ISO 21528(Part-1)	Present/Absent per 25 g
		Clostridium perfringens	ISO 7937	≥10 CFU/g
		Sulfite reducing anaerobic clostridia / spores	ISO 15213	≥10 CFU/g
<b>5.</b>	<b>Coffee and Cocoa Products</b>	Aerobic Colony Count Bacterial Count Total Plate Count	IS 5402 ISO 4833(Part-1) US FDA BAM	≥10 CFU/g
		Yeast & Mould	IS 5403 ISO 21527(Part-1) ISO 21527(Part-2) US FDA BAM	≥10 CFU/g
		Escherichia coli	IS 5887(Part-1) ISO 16649(Part-2)	≥10 CFU/g
		Escherichia coli	IS 5887(Part-1) ISO 7251/ US FDA BAM	Present/Absent per 25 g/ml

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		Escherichia coli	IS 5887(Part-1) ISO 7251/ US FDA BAM	<0.3 to >110 MPN per g/ml
		Coliform	IS 5401(Part-1) ISO 4832 / US FDA BAM	≥10 CFU/g
		Coliform	IS 5401(Part-2)/ ISO 4831 US FDA BAM	<0.3 to >110 MPN per g/ml
		Coliform	ISO 4831	Present/Absent per 25 g/ml
		Staphylococcus aureus	IS 5887(Part-2) IS 5887(Part-8) ISO 6888(Part-1) US FDA BAM	≥10 CFU/g
		Staphylococcus aureus	IS 5887(Part-2) ISO 6888(Part-3)	Present/Absent per 25 g/ml
		Salmonella	IS 5887(Part-3) ISO 6579/ US FDA BAM	Present/Absent per 25 g/ml
		Shigella	IS 5887(Part-7) ISO 21567	Present/Absent per 25 g/ml
		Listeria monocytogens	ISO 11290(Part-1) IS 14988(Part-1)	Present/Absent per 25 g/ml
		Listeria monocytogens	ISO 11290(Part-2) IS 14988(Part-2)	≥10 CFU/g
		Bacillus cereus	IS 5887(Part-6) ISO 7932	≥10 CFU/g
		Vibrio cholerae	IS 5887(Part-5) US FDA BAM	Present/Absent per 25 g/ml
		Vibrio parahaemolyticus	IS 5887(Part-5) US FDA BAM	Present/Absent per 25 g/ml
		Feacal Streptococci	IS 5887(Part-2)	Present/Absent per 25 g/ml
		Feacal Streptococci	IS 5887(Part-2)	<0.3 to >110 MPN per

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				g/ml
		Enterobacteriaceae	ISO 21528(Part-2)	≥10 CFU/g
		Enterobacteriaceae	ISO 21528(Part-1)	<0.3 to >110 MPN per g/ml
		Enterobacteriaceae	ISO 21528(Part-1)	Present /Absent per 25 g/ml
		Clostridium perfringens	ISO 7937	≥10 CFU/g
		Sulfite reducing anaerobic clostridia / spores	ISO 15213	≥10 CFU/g
6.	Oil Seeds and By-Products / Edible Oils and Fats	Aerobic Colony Count Bacterial Count Total Plate Count	IS 5402 ISO 4833(Part-1) US FDA BAM	≥10 CFU/g ≥1 CFU/ml
		Yeast & Mould	IS 5403 ISO 21527(Part-1) ISO 21527(Part-2) US FDA BAM	≥10 CFU/g ≥1 CFU/ml
		Escherichia coli	IS 5887(Part-1) ISO 16649(Part-2)	≥10 CFU/g ≥1 CFU/ml
		Escherichia coli	IS 5887(Part-1)/ ISO 7251 US FDA BAM	Present/Absent per 25 g/ml
		Escherichia coli	US FDA BAM IS 5887(Part-1)/ ISO 7251	<0.3 to >110 MPN per g/ml
		Coliform	IS 5401(Part-1) ISO 4832/ US FDA BAM	≥10 CFU/g ≥1 CFU/ml
		Coliform	IS 5401(Part-2)/ ISO 4831/ US FDA BAM	<0.3 to >110 MPN per g/ml
		Coliform	ISO 4831	Present/Absent per 25 g/ml
		Staphylococcus aureus	IS 5887(Part-2) IS 5887(Part-8)	≥10 CFU/g ≥1 CFU/ml

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			ISO 6888(Part-1) US FDA BAM	
		Staphylococcus aureus	IS 5887(Part-2) ISO 6888(Part-3)	Present/Absent per 25 g/ml
		Salmonella	IS 5887(Part-3) ISO 6579 / US FDA BAM	Present/Absent per 25 g/ml
		Shigella	IS 5887(Part-7) ISO 21567	Present/Absent per 25 g/ml
		Lactic Acid Bacteria	ISO 15214	≥10 CFU/g ≥1CFU/ml
		Listeria monocytogens	ISO 11290(Part-1) IS 14988(Part-1)	Present/Absent per 25 g/ml
		Listeria monocytogens	ISO 11290(Part-2) IS 14988(Part-2)	≥10 CFU/g ≥1 CFU/ml
		Bacillus cereus	IS 5887(Part-6)/ ISO 7932	≥10 CFU/g ≥1 CFU/ml
		Vibrio cholerae	IS 5887(Part-5) US FDA BAM	Present/Absent per 25 g/ml
		Vibrio parahaemolyticus	IS 5887(Part-5) US FDA BAM	Present/Absent per 25 g/ml
		Feacal Streptococci	IS 5887(Part-2)	Present/Absent per 25 g/ml
		Feacal Streptococci	IS 5887(Part-2)	<0.3 to >110 MPN per g/ml
		Enterobacteriaceae	ISO 21528(Part-2)	≥10 CFU/g ≥1 CFU/ml
		Enterobacteriaceae	ISO 21528(Part-1)	<0.3 to >110 MPN per g/ml
		Enterobacteriaceae	ISO 21528(Part-1)	Present/Absent per 25 g/ml
		Clostridium perfringens	ISO 7937	≥10 CFU/g

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				≥1CFU/ml
		Sulfite reducing anaerobic clostridia / spores	ISO 15213	≥10 CFU/g ≥1 CFU/ml
7.	<b>Fish and Sea Foods</b>	Aerobic Colony Count Bacterial Count Total Plate Count	IS 5402 ISO 4833(Part-1) US FDA BAM	≥10 CFU/g
		Yeast and Mould	IS 5403 ISO 21527(Part-1) ISO 21527(Part-2) US FDA BAM	≥10 CFU/g
		Escherichia coli	IS 5887(Part-1) ISO 16649(Part-2)	≥10 CFU/g
		Escherichia coli	IS 5887(Part-1) /ISO 7251	Present/Absent per 25 g
		Escherichia coli	IS 5887(Part-1) ISO 7251/ US FDA BAM	<0.3 to >110 MPN/g
		Coliform	IS 5401(Part-1) ISO 4832/ US FDA BAM	≥10 CFU/g
		Coliform	IS 5401(Part-2)/ ISO 4831 US FDA BAM	<0.3 to >110 MPN/g
		Coliform	ISO 4831	Present/Absent per 25 g
		Staphylococcus aureus	IS 5887(Part-2) IS 5887(Part-8) ISO 6888(Part-1) US FDA BAM	≥10 CFU/g
		Staphylococcus aureus	IS 5887(Part-2) ISO 6888(Part-3)	Present/Absent per 25 g
		Salmonella	IS 5887(Part-3) ISO 6579 US FDA BAM	Present/Absent per 25 g
		Shigella	IS 5887(Part-7)/ISO 21567	Present/Absent per 25 g
		Listeria monocytogens	ISO 11290(Part-1)	Present/Absent per 25 g

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			IS 14988(Part-1)	
		Listeria monocytogens	ISO 11290(Part-2) IS 14988(Part-2)	≥10 CFU/g
		Bacillus cereus	IS 5887(Part-6)/ ISO 7932	≥10 CFU/g
		Vibrio cholerae	IS 5887(Part-5) US FDA BAM	Present/Absent per 25 g
		Vibrio parahaemolyticus	IS 5887(Part-5) US FDA BAM	Present/Absent per 25 g
		Feacal Streptococci	IS 5887(Part-2)	Present/Absent per 25 g
		Feacal Streptococci	IS 5887(Part-2)	<0.3 to >110 MPN/g
		Enterobacteriaceae	ISO 21528(Part-2)	≥10 CFU/g
		Enterobacteriaceae	ISO 21528(Part-1)	<0.3 to >110 MPN/g
		Enterobacteriaceae	ISO 21528(Part-1)	Present/Absent per 25 g
		Clostridium perfringens	ISO 7937	≥10 CFU/g
		Sulfite reducing anaerobic clostridia / spores	ISO 15213	≥10 CFU/g
		Psychrotropic microorganisms	ISO 17410 IS 1479(Part-3)	≥10 CFU/g
<b>8.</b>	<b>Fruit and Vegetables Products</b>	Aerobic Colony Count Bacterial Count Total Plate Count	IS 5402 ISO 4833(Part-1) US FDA BAM	≥10 CFU/g ≥1 CFU/ml
		Yeast & Mould	IS 5403 ISO 21527(Part-1) ISO 21527(Part-2) US FDA BAM	≥10 CFU/g ≥1 CFU/ml
		Escherichia coli	IS 5887(Part-1) ISO 16649(Part-2)	≥10 CFU/g ≥1 CFU/ml
		Escherichia coli	IS 5887(Part-1) ISO 7251	Present/Absent per 25 g/ml
		Escherichia coli	IS 5887(Part-1)	<0.3 to >110 MPN per



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			ISO 7251/ US FDA BAM	g/ml
		Coliform	IS 5401(Part-1)/ ISO 4832/ US FDA BAM	≥10 CFU/g ≥1 CFU/ml
		Coliform	IS 5401(Part-2)/ ISO 4831 US FDA BAM	<0.3 to >110 MPN per g/ml
		Coliform	ISO 4831	Present/Absent per 25 g/ml
		Staphylococcus aureus	IS 5887(Part-2) IS 5887(Part-8) ISO 6888(Part-1) US FDA BAM	≥10 CFU/g ≥1 CFU/ml
		Staphylococcus aureus	IS 5887(Part-2) ISO 6888(Part-3)	Present/Absent per 25 g/ml
		Salmonella	IS 5887(Part-3) ISO 6579/ US FDA BAM	Present/Absent per 25 g/ml
		Shigella	IS 5887(Part-7) ISO 21567	Present/Absent per 25 g/ml
		Lactic Acid Bacteria	ISO 15214	≥10 CFU/g ≥1 CFU/ml
		Listeria monocytogens	ISO 11290(Part-1) IS 14988(Part-1)	Present/Absent per 25 g/ml
		Listeria monocytogens	ISO 11290(Part-2) IS 14988(Part-2)	≥10 CFU/g ≥1 CFU/ml
		Bacillus cereus	IS 5887(Part-6) ISO 7932	≥10 CFU/g ≥1 CFU/ml
		Vibrio cholerae	IS 5887(Part-5) US FDA BAM	Present/Absent per 25 g/ml
		Vibrio parahaemolyticus	IS 5887(Part-5) US FDA BAM	Present/Absent per 25 g/ml
		Feacal Streptococci	IS 5887(Part -2)	Present/Absent per 25 g/ml
		Feacal Streptococci	IS 5887(Part -2)	<0.3 to >110 MPN per

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				g/ml
		Enterobacteriaceae	ISO 21528(Part-2)	≥10 CFU/g ≥1 CFU/ml
		Enterobacteriaceae	ISO 21528(Part-2)	<0.3 to >110 MPN per g/ml
		Enterobacteriaceae	ISO 21528(Part-1):	Present/Absent per 25 g/ml
		Clostridium perfringens	ISO 7937	≥10 CFU/g ≥1 CFU/ml
		Sulfite reducing anaerobic clostridia / Spores	ISO 15213	≥10 CFU/g ≥1CFU/ml
		Aciduric Flat Sour organisms as Bacillus coagulans	APHA	≥10 CFU/g ≥1 CFU/ml
		Psychrotropic microorganisms	ISO 17410 IS 1479(Part-3)	≥10 CFU/g ≥1 CFU/ml
9.	Herbs, Spices, Condiments	Total Plate Count	IS 5402 ISO 4833(Part-1) US FDA BAM	≥10 CFU/g
		Yeast & Mould	IS 5403 / US FDA BAM ISO 21527(Part-1) ISO 21527(Part-2)	≥10 CFU/g
		Escherichia coli	IS 5887(Part-1) ISO 16649(Part-2)	≥10 CFU/g
		Escherichia coli	IS 5887(Part-1)/ ISO 7251	Present/Absent per 25 g
		Escherichia coli	IS 5887(Part-1) ISO 7251/ US FDA BAM	<0.3 to >110 MPN/g
		Coliform	IS 5401(Part-1) ISO 4832/ US FDA BAM	≥10 CFU/g
		Coliform	IS 5401(Part-2)/ ISO 4831 US FDA BAM	<0.3 to >110 MPN/g

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		Coliform	ISO 4831	Present/Absent per 25 g
		Staphylococcus aureus	IS 5887(Part-2) IS 5887(Part-8) ISO 6888(Part-1) US FDA BAM	≥10 CFU/g
		Staphylococcus aureus	IS 5887(Part-2) ISO 6888(Part-3)	Present/Absent per 25 g
		Salmonella	IS 5887(Part-3) ISO 6579/ US FDA BAM	Present/Absent per 25 g
		Shigella	IS 5887(Part-7)/ISO 21567	Present/Absent per 25 g
		Listeria monocytogens	ISO 11290(Part-1) IS 14988(Part-1)	Present/Absent per 25 g
		Listeria monocytogens	ISO 11290(Part-2) IS 14988(Part-2)	≥10 CFU/g
		Bacillus cereus	IS 5887(Part-6)/ ISO 7932	≥10 CFU/g
		Vibrio cholera	IS 5887(Part-5) US FDA BAM	Present/Absent per 25 g
		Vibrio parahaemolyticus	IS 5887(Part-5) US FDA BAM	Present/Absent per 25 g
		Feacal Streptococci	IS 5887(Part-2)	Present/Absent per 25 g
		Feacal Streptococci	IS 5887(Part-2)	<0.3 to >110 MPN/g
		Enterobacteriaceae	ISO 21528(Part-1)	≥10 CFU/g
		Enterobacteriaceae	ISO 21528(Part-1)	<0.3 to >110 MPN/g
		Enterobacteriaceae	ISO 21528(Part-1)	Present/Absent per 25 g
		Clostridium perfringens	ISO 7937	≥10 CFU/g
		Sulfite reducing anaerobic clostridia / spores	ISO 15213	≥10 CFU/g
		Mesophilic Aerobic Spore formers	APHA	1 to 150000 CFU/g
<b>10.</b>	<b>Jams, Jellies,</b>	Aerobic Colony Count	IS 5402	≥10 CFU/g

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	<b>Juices, Sauces &amp; Concentrates</b>	Bacterial Count	US FDA BAM	
		Total Plate Count	ISO 4833(Part-1)	
		Yeast & Mould	IS 5403 ISO 21527(Part-1) ISO 21527(Part-2) US FDA BAM	≥10 CFU/g
		Escherichia coli	IS 5887(Part-1) ISO 16649(Part-2)	≥10 CFU/g
		Escherichia coli	IS 5887(Part-1)/ ISO 7251	Present/Absent per 25 g
		Escherichia coli	IS 5887(Part-1) ISO 7251/ US FDA BAM	<0.3 to >110 MPN/g
		Coliform	IS 5401(Part-1) ISO 4832/ US FDA BAM	≥10 CFU/g
		Coliform	IS 5401(Part-2)/ ISO 4831 US FDA BAM	<0.3 to >110 MPN/g
		Coliform	ISO 4831	Present/Absent per 25 g
		Staphylococcus aureus	IS 5887(Part-2) IS 5887(Part-8) ISO 6888(Part-1) US FDA BAM	≥10 CFU/g
		Staphylococcus aureus	IS 5887(Part-2) ISO 6888(Part-3)	Present/Absent per 25 g
		Salmonella	IS 5887(Part-3) ISO 6579/ US FDA BAM	Present/Absent per 25 g
		Shigella	IS 5887(Part-7) ISO 21567	Present/Absent per 25 g
		Lactic Acid Bacteria	ISO 15214	≥10 CFU/g
		Listeria monocytogens	ISO 11290(Part-1) IS 14988(Part-1)	Present/Absent per 25 g
	Listeria monocytogens	ISO 11290(Part-2) IS 14988(Part-2)	≥10 CFU/g	

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		Bacillus cereus	IS 5887(Part 6)/ ISO 7932	≥10 CFU/g
		Vibrio cholerae	IS 5887(Part-5) US FDA BAM	Present/Absent per 25 g
		Vibrio parahaemolyticus	IS 5887(Part-5) US FDA BAM	Present/Absent per 25 g
		Feecal Streptococci	IS 5887(Part-2)	Present/Absent per 25 g
		Feecal Streptococci	IS 5887(Part-2)	<0.3 to >110 MPN/g
		Enterobacteriaceae	ISO 21528(Part-2)	≥10 CFU/g
		Enterobacteriaceae	ISO 21528(Part-1)	<0.3 to >110 MPN/g
		Enterobacteriaceae	ISO 21528(Part-1)	Present/Absent per 25 g
		Clostridium perfringens	ISO 7937	≥10 CFU/g
		Sulfite reducing anaerobic clostridia / spores	ISO 15213	≥10 CFU/g
		Aciduric Flat Sour organisms as Bacillus coagulans	APHA	≥1 CFU/g
		Psychotropic microorganisms	ISO 17410 IS 1479(Part-3)	≥10 CFU/g
11.	<b>Meat and Meat Product</b>	Aerobic Colony Count Bacterial Count Total Plate Count	IS 5402 ISO 4833(Part-1) US FDA BAM	≥10 CFU/g
		Yeast & Mould	IS 5403 / US FDA BAM ISO 21527(Part-1) ISO 21527(Part-2)	≥10 CFU/g
		Escherichia coli	IS 5887(Part-1) ISO 16649(Part-2)	≥10 CFU/g
		Escherichia coli	IS 5887(Part-1)/ ISO 7251	Present/Absent per 25 g
		Escherichia coli	IS 5887(Part-1)/ ISO 7251 US FDA BAM	<0.3 to >110 MPN/g
		Coliform	IS 5401(Part-1)/ ISO 4832 US FDA BAM	≥10 CFU/g

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		Coliform	IS 5401(Part-2)/ ISO 4831 US FDA BAM	<0.3 to >110 MPN/g
		Coliform	ISO 4831	Present/Absent per 25 g
		Staphylococcus aureus	IS 5887(Part-2) IS 5887(Part-8) ISO 6888(Part-1) US FDA BAM	≥10 CFU/g
		Staphylococcus aureus	IS 5887(Part-2) ISO 6888(Part-3)	Present/Absent per 25 g
		Salmonella	IS 5887(Part-3) ISO 6579 US FDA BAM	Present/Absent per 25 g
		Shigella	IS 5887(Part-7) ISO 21567	Present/Absent per 25 g
		Lactic Acid Bacteria	ISO 15214	≥10 CFU/g
		Listeria monocytogens	ISO 11290(Part-1) IS 14988(Part-1)	Present/Absent per 25 g
		Listeria monocytogens	ISO 11290(Part-2) IS 14988(Part-2)	≥10 CFU/g
		Bacillus cereus	IS 5887(Part -6) ISO 7932	≥10 CFU/g
		Vibrio cholerae	IS 5887(Part-5) US FDA BAM	Present/Absent per 25 g
		Vibrio parahaemolyticus	IS 5887(Part-5) US FDA BAM	Present/Absent per 25 g
		Feacal Streptococci	IS 5887(Part-2)	Present/Absent per 25 g
		Feacal Streptococci	IS 5887(Part-2)	<0.3 to >110 MPN/g
		Enterobacteriaceae	ISO 21528(Part-2)	≥10 CFU/g
		Enterobacteriaceae	ISO 21528(Part-1)	<0.3 to >110 MPN/g
		Enterobacteriaceae	ISO 21528(Part-1)	Present/Absent per 25 g

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		Clostridium perfringens	ISO 7937	≥10 CFU/g
		Sulfite reducing anaerobic clostridia / spores	ISO 1521	≥10 CFU/g
		Pseudomonas aeruginosa	ISO 13720	≥10 CFU/g
		Psychotropic Count	ISO 17410 IS 1479(Part-3)	≥10 CFU/g
12.	Milk , Dairy Products and Nutritional Supplements	Aerobic Colony Count	IS 5402	≥10 CFU/g
		Bacterial Count	ISO 4833(Part-1)	≥1 CFU/ml
		Total Plate Count	US FDA BAM	
		Yeast &Mould	IS 5403 ISO 21527(Part-1) ISO 21527(Part-2) US FDA BAM	≥10 CFU/g ≥1 CFU/ml
		Escherichia coli	IS 5887(Part-1) ISO 16649(Part-2)	≥10 CFU/g ≥1 CFU/ml
		Escherichia coli	IS 5887(Part-1)/ ISO 7251	Present/Absent per 25 g/ml
		Escherichia coli	IS 5887(Part-1) ISO 7251/ US FDA BAM	<0.3 to >110 MPN per g/ml
		Coliform	IS 5401(Part-1) ISO 4832/ US FDA BAM	≥10 CFU/g ≥1 CFU/ml
		Coliform	IS 5401(Part-2)/ ISO 4831 US FDA BAM	<0.3 to >110 MPN per g/ml
		Coliform	ISO 4831	Present/Absent per 25 g/ml
		Staphylococcus aureus	IS 5887(Part-2) IS 5887(Part-8) ISO 6888(Part-1) US FDA BAM	≥10 CFU/g ≥1 CFU/ml

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		Staphylococcus aureus	IS 5887(Part-2) ISO 6888(Part-3)	Present/Absent per 25 g/ml
		Salmonella	IS 5887(Part-3) ISO 6579 US FDA BAM	Present/Absent per 25 g/ml
		Shigella	IS 5887(Part-7) ISO 21567	Present/Absent per 25 g/ml
		Lactic Acid Bacteria	ISO 15214	≥10 CFU/g ≥1 CFU/ml
		Listeria monocytogens	ISO 11290(Part-1) IS 14988(Part-1)	Present/Absent per 25g/ml
		Listeria monocytogens	ISO 11290(Part-2) IS 14988(Part-2)	≥10 CFU/g ≥1 CFU/ml
		Bacillus cereus	IS 5887(Part-6) ISO 7932	≥10 CFU/g ≥1 CFU/ml
		Vibrio cholera	IS 5887(Part-5) US FDA BAM	Present/Absent per 25 g/ml
		Vibrio parahaemolyticus	IS 5887(Part-5) US FDA BAM	Present/Absent per 25 g/ml
		Feacal Streptococci	IS 5887(Part-2)	Present/Absent per 25 g/ml
		Feacal Streptococci	IS 5887(Part-2)	<0.3 to >110 MPN per g/ml
		Enterobacteriaceae	ISO 21528(Part-2)	≥10 CFU/g ≥1 CFU/ml
		Enterobacteriaceae	ISO 21528(Part-1)	<0.3 to >110 MPN per g/ml
		Enterobacteriaceae	ISO 21528(Part-1)	Present/Absent per 25 g/ml
		Clostridium perfringens	ISO 7937	≥10 CFU/g ≥1 CFU/ml
		Sulfite reducing	ISO 15213	≥10 CFU/g



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		anaerobic clostridia / spores		≥1 CFU/ml
		Accelerated Storage Test	IS 1166	Passes/Fails the test
		Aciduric Flat sour organisms as Bacillus coagulans	APHA	≥10 CFU/g ≥1 CFU/ml
		Thermophillic bacteria count	IS 4251	≥10 CFU/g ≥1 CFU/ml
		Proteolytic bacteria count	IS 4251	≥10 CFU/g ≥1 CFU/ml
		Lipolytic bacteria count	IS 4251	≥10 CFU/g ≥1 CFU/ml
		Anaerobic mesophillic spore count	APHA	≥10 CFU/g ≥1 CFU/ml
		Methylene Blue Reduction Test (MBRT)	IS 1479(Part-3)	Qualitative
		Psychotropic Count	ISO 17410 IS 1479(Part-3)	≥10 CFU/g ≥1 CFU/ml
13.	<b>Ready to Eat Snacks / Food / Ketchup Chutney/ Culinary Products/ Pickles/ Instant Mixes and Instant Foods</b>	Aerobic Colony Count	IS 5402	≥10 CFU/g
		Bacterial Count	ISO 4833(Part-1)	
		Total Plate Count	US FDA BAM	
		Yeast & Mould	IS 5403 ISO 21527(Part-1) ISO 21527(Part-2) US FDA BAM	≥10 CFU/g
		Escherichia coli	IS 5887(Part-1) ISO 16649(Part-2)	≥10 CFU/g
		Escherichia coli	IS 5887(Part-1) ISO 7251	Present/Absent per 25 g
		Escherichia coli	IS 5887(Part-1) ISO 7251/ US FDA BAM	<0.3 to >110 MPN/g

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		Coliform	IS 5401(Part-1) ISO 4832/ US FDA BAM	≥10 CFU/g
		Coliform	IS 5401(Part-2)/ ISO 4831 US FDA BAM	<0.3 to >110 MPN/g
		Coliform	ISO 4831	Present/Absent per 25 g
		Staphylococcus aureus	IS 5887(Part-2) IS 5887(Part-8) ISO 6888(Part-1) US FDA BAM	≥10 CFU/g
		Staphylococcus aureus	IS 5887(Part-2) ISO 6888(Part-3)	Present/Absent per 25 g
		Salmonella	IS 5887(Part-3) ISO 6579/ US FDA BAM	Present/Absent per 25 g
		Shigella	IS 5887(Part-7)/ISO 21567	Present/Absent per 25 g
		Lactic Acid Bacteria	ISO 15214	≥10 CFU/g
		Listeria monocytogens	ISO 11290(Part-1) IS 14988(Part-1)	Present/Absent per 25 g
		Listeria monocytogens	ISO 11290(Part-2) IS 14988(Part-2)	≥10 CFU/g
		Bacillus cereus	IS 5887(Part-6)/ ISO 7932	≥10 CFU/g
		Vibrio cholera	IS 5887(Part-5) US FDA BAM	Present/Absent per 25 g
		Vibrio parahaemolyticus	IS 5887(Part-5) US FDA BAM	Present/Absent per 25g
		Feacal Streptococci	IS 5887(Part-2)	Present/Absent per 25g
		Feacal Streptococci	IS 5887(Part-2)	<0.3 to >110 MPN/g
		Enterobacteriaceae	ISO 21528:(Part-2)	≥10 CFU/g
		Enterobacteriaceae	ISO 21528(Part-1)	<0.3 to >110 MPN/g
		Enterobacteriaceae	ISO 21528(Part-1)	Present/Absent per 25g
		Clostridium perfringens	ISO 7937	≥10 CFU/g

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		Sulfite reducing anaerobic clostridia / spores	ISO 15213	≥10 CFU/g
		Aciduric Flat Sour organisms as Bacillus coagulans	APHA	≥1 0CFU/gm
<b>14.</b>	<b>Tea and Tea Products</b>	Aerobic Colony Count Bacterial Count Total Plate Count	IS 5402 ISO 4833(Part-1) US FDA BAM	≥10 CFU/g
		Yeast & Mould	IS 5403 ISO 21527(Part-1) ISO 21527(Part-2) US FDA BAM	≥10 CFU/g
		Escherichia coli	IS 5887(Part-1) ISO 16649(Part-2)	≥10 CFU/g
		Escherichia coli	IS 5887(Part-1) ISO 7251	Present/Absent per 25 g/ml
		Escherichia coli	IS 5887(Part-1) ISO 7251/ US FDA BAM	<0.3 to >110 MPN per g/ml
		Coliform	IS 5401(Part-1) ISO 4832/ US FDA BAM	≥10 CFU/g
		Coliform	IS 5401(Part-2)/ ISO 4831 US FDA BAM	<0.3 to >110 MPN per g/ml
		Coliform	ISO 4831	Present/Absent per 25 g/ml
		Staphylococcus aureus	IS 5887(Part-2) IS 5887(Part-8) ISO 6888(Part-1) US FDA BAM	≥10 CFU/g
		Staphylococcus aureus	IS 5887(Part-2)	Present/Absent per 25

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			ISO 6888(Part-3)	g/ml
		Salmonella	IS 5887(Part-3)/ ISO 6579 US FDA BAM	Present/Absent per 25 g/ml
		Shigella	IS 5887(Part-7) ISO 21567	Present/Absent per 25 g/ml
		Lactic Acid Bacteria	ISO 15214	≥10 CFU/g
		Listeria monocytogens	ISO 11290(Part-1) IS 14988(Part-1)	Present/Absent per 25 g/ml
		Listeria monocytogens	ISO 11290(Part-2) IS 14988(Part-2)	≥10 CFU/g
		Bacillus cereus	IS 5887(Part-6)/ ISO 7932	≥10 CFU/g
		Vibrio cholerae	IS 5887(Part-5) US FDA BAM	Present/Absent per 25 g/ml
		Vibrio parahaemolyticus	IS 5887(Part-5) US FDA BAM	Present/Absent per 25 g/ml
		Feacal Streptococci	IS 5887(Part-2)	Present/Absent per 25 g/ml
		Feacal Streptococci	IS 5887(Part-2)	<0.3 to >110 MPN per g/ml
		Enterobacteriaceae	ISO 21528(Part-2)	≥10 CFU/g
		Enterobacteriaceae	ISO 21528(Part-1)	<0.3 to >110 MPN per g/ml
		Enterobacteriaceae	ISO 21528(Part-1)	Present/Absent per 25 g/m
		Clostridium perfringens	ISO 7937	≥10 CFU/g
		Sulfite reducing anaerobic clostridia / spores	ISO 15213	≥ 10CFU/g
15.	Nut and Nuts Products	Aerobic Colony Count Bacterial Count Total Plate Count	IS 5402 ISO 4833(Part-1) US FDA BAM	≥10 CFU/g

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		Yeast & Mould	IS 5403 ISO 21527(Part-1) ISO 21527(Part-2) US FDA BAM	≥10 CFU/g
		Escherichia coli	IS 5887(Part-1) ISO 16649(Part-2)	≥10 CFU/g
		Escherichia coli	IS 5887(Part-1) ISO 7251	Present/Absent per 25 g/ml
		Coliform	IS 5401(Part-1) ISO 4832 US FDA BAM	≥10 CFU/g
		Coliform	ISO 4831	Present/Absent per 25 g/ml
		Staphylococcus aureus	IS 5887(Part-2) ISO 6888(Part-3)	Present/Absent per 25 g/ml
		Salmonella	IS 5887(Part-3)/ ISO 6579 US FDA BAM	Present/Absent per 25 g/ml
		Shigella	IS 5887(Part-7)/ISO 21567	Present/Absent per 25 g/ml
		Listeria monocytogens	ISO 11290(Part-1) IS 14988(Part-1)	Present/Absent per 25 g/ml
		Vibrio cholerae	IS 5887(Part-5) US FDA BAM	Present/Absent per 25 g/ml
		Vibrio parahaemolyticus	IS 5887(Part-5) US FDA BAM	Present/Absent per 25 g/ml
		Feacal Streptococci	IS 5887(Part-2)	Present/Absent per 25 g/ml
		Feacal Streptococci	IS 5887(Part-2)	<0.3 to >110 MPN per g/ml
		Enterobacteriaceae	ISO 21528(Part-1)	<0.3 to >110 MPN per g/ml
		Enterobacteriaceae	ISO:21528(Part-1)	Present/Absent per 25

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<b><u>CHEMICAL TESTING</u></b>				
<b>I.</b>	<b>FOOD AND AGRICULTURAL PRODUCTS</b>			
<b>1.</b>	<b>Bakery &amp; Confectionery Products</b>			
	<b>Bakery, Sweets and Confectionery Products (Chocolates/ Biscuits/ Cakes/ Bread/ Sugar Boiled Confectionery/ Edible Ice Jelly/ Chewing Gum &amp; Bubble Gum)</b>	Sulfated Ash	IS 6287	0.1 to 15g/100g
		Reducing Sugars	IS 6287/ FSSAI Manual	1.0 to 75g/100g
		Sucrose	IS 6287/ FSSAI Manual	1 to 100g/100g
		Fat	IS 6287	0.5 to 50 g/100g
		Protein	IS 6287	0.5 to 50g/100g
		Cocoa solids	FSSAI Manual/ AOAC	1 to 50g/100g
		Milk Solids	IS 1163	1 to 50g/100g
		Moisture	IS 1011/ IS 12711	1 to 10g/100g
		Acidity of extracted Fat (as Oleic acid)	IS 1011	0.1 to 5g/100g
		Acid insoluble ash (Dry basis)	IS 1011/ IS 12711	0.01 to 4.0g/100g
		Alcoholic acidity	IS :12711	0.01 to 0.5g/100g
	Dietary Fibre	AOAC	0.5 to 50g/100g	
<b>2.</b>	<b>Cereals, Pulses and their Products</b>			
<b>a.</b>	<b>Food Grains/ Cereals &amp; Pulses</b>	Moisture	IS 4333 (Part 2)	1 to 20g/100g
		Ash	FSSAI Manual	0.5-25g/100g
		Fat	AOAC	0.02-20g/100g
		Protein	IS 7219	0.5-25g/100g
		Total Carbohydrates	IS 1656	5-90g/100g
		Free Acidity	IS 4706 (Part 2)	0.1 to 5 ml of 0.1N NaOH per 100g
		Dietary Fibre	AOAC	0.5-20g/100g
<b>b.</b>	<b>Chana (Bengal Gram)</b>	Damaged Grains	IS 4333 (Part 1)	0.1 to 15g/100g
		Brokens Fragments	IS 4333 (Part 1)	0.1 to 15g/100g

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		Green, Shrivelled or Immature Grains	IS 4333 (Part 1)	0.1 to 15g/100g
		Weeviled Grains / Insect damaged Grains	IS 4333 (Part 1)	0.1 to 15g/100g
		Varietal admixture	IS 4333 (Part 1)	0.1 to 15g/100g
		Dietary Fibre	AOAC	0.5-20g/100g
<b>c.</b>	<b>Soy Bean</b>	Moisture	IS 4333 (Part2) / IS 3579	2 to 15g/100g
		Foreign matter	IS 4333 (Part 1) / IS 3579	0.1 to 10g/100g
		Other Grains	IS 4333 (Part 1) / IS 3579	0.1 to 20g/100g
		Damaged Grains	IS 4333 (Part 1) / IS 3579	0.1 to 20g/100g
		Urease Activity	Gafta Method	0.01 to 5.0 mgN/g/minute at 30°c
		Dietary Fibre	AOAC	0.5-20g/100g
<b>d.</b>	<b>Maize</b>	Moisture	IS 4333 (Part 2)	5 to 20g/100g
		Foreign Matter	IS 4333 (Part 1)	0.1 to 10g/100g
		Broken, damaged, slightly damaged and Immature kernels	IS 4333 (Part 1)	0.5 to 15g/100g
		Weeviled Grains	IS 4333 (Part 1)	1to15g/100g
		Starch	IS 4706 (Part-II)	40 to 80g/100g
		Dietary Fibre	AOAC	0.5-25g/100g
<b>e.</b>	<b>Wheat</b>	Moisture	IS 4333 (Part 2)	2 to 15g/100g
		Insect damaged Grains / Weevilled Grains	IS 4333 (Part 1)	0.1 to 20g/100g
		Damaged Kernels (other than insect damaged)	IS 4333 (Part 1)	0.1 to 20g/100g
		Foreign Matter	IS 4333 (Part 1)	0.1 to 10g/100g
		Shrivelled & Broken grains (not damaged)	IS 4333 (Part 1)	0.1 to 20g/100g
		Other Edible Grain	IS 4333 (Part 1)	50 to 150 kg/hl



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		Dietary Fibre	AOAC	0.5 to 20g/100g
<b>f.</b>	<b>Barley</b>	Moisture	IS 4333 (Part 2)	5 to 20g/100g
		Damaged including discolored (black tipped/ black cornered only)	IS 4333 (Part 1)	0.1 to 20g/100g
		Insect damaged/Weeviled	IS 4333 (Part 1)	0.1 to 20g/100g
		Foreign matter (organic/inorganic)	IS 4333 (Part 1)	0.1 to 20g/100g
		Other Food Grains	IS : 4333 (Part 1)	0.1 to 20g/100g
		Broken Kernels	IS : 4333 (Part 1)	0.1 to 20g/100g
		Mass of 1000 grains	IS : 4333 (Part4)	30 to 60 g
		Dietary Fibre	AOAC	0.5 to 20g/100g
<b>g.</b>	<b>Wheat Atta</b>	Moisture	IS 1155	5 to 15g/100g
		Total Ash	IS 1155/ AOAC	1 to 2.5 g/100g
		Acid Insoluble Ash	IS 1155	0.05 to 2 g/100g
		Protein	IS 7219/ AOAC	5 to 16g/100g
		Dry Gluten	IS 1155	4 to 14g/100g
		Alcoholic Acidity	IS 1155	0.01 to 5g/100g
		Crude Fiber	IS 1155	1 to 10g/100g
		Carbohydrates	AOAC	30 to 80g/100g
		Fat	AOAC	0.1 to 5g/100g
		Dietary Fibre	AOAC	0.5 to 20g/100g
<b>h.</b>	<b>Maida</b>	Moisture	IS 1009	5 to 14g/100g
		Total Ash	IS 1009/ AOAC	0.1 to 2g/100g
		Acid insoluble ash	IS 1009	0.02 to 2g/100g
		Protein	IS 7219/ AOAC	5 to 17g/100g
		Dry Gluten	IS 1009	3 to 17g/100g
		Crude Fiber	IS 10226 (Part-1) / AOAC	0.5 to 10g/100g
		Carbohydrates	AOAC	30 to 90g/100g
		Fat	AOAC	0.1 to 5g/100g

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		Alcoholic Acidity	IS 1009	0.05 to 0.5g/100g
		Dietary Fibre	AOAC	0.5 to 20g/100g
<b>i.</b>	<b>Suji or Rava</b>	Moisture	IS 1010	5 to 15g/100g
		Total Ash	IS 1010/ AOAC	0.5 to 2.5g/100g
		Acid Insoluble Ash	IS 1010	0.02 to 0.5g/100g
		Protein	IS 7219/ AOAC	4 to 13g/100g
		Dry Gluten	IS 1010	5 to 12g/100g
		Crude Fiber	IS 10226 (Part-1)/ AOAC	0.5 to 10g/100g
		Carbohydrates	AOAC	30 to 90g/100g
		Fat	AOAC	0.1 to 5g/100g
		Alcoholic Acidity	IS 1010	0.05 to 0.5g/100g
		Dietary Fibre	AOAC	0.5 to 20g/100g
<b>j.</b>	<b>Besan</b>	Moisture	IS 1009	6 to 13 g/100g
		Total Ash	IS 1009/ AOAC	1 to 5g/100g
		Acid Insoluble Ash	IS 1009	0.02 to 1g/100g
		Protein	IS 7219/ AOAC	10 to 30 g/100g
		Crude Fiber	IS 10226 (Part1)/ AOAC	1 to 10 g/100g
		Carbohydrates	AOAC	30 to 70g/100g
		Fat	AOAC	0.1 to 10g/100g
		Alcoholic Acidity	IS 1009	0.05 to 0.5g/100g
		Dietary Fibre	AOAC	0.5 to 20g/100g
<b>3.</b>	<b>Oil Seeds, By-Products and Other Seeds</b>			
<b>a.</b>	<b>Castor Seeds</b>	Oil Content	IS 3579	30 to 60 g/100g
		Impurities (Foreign Matter) and Damaged Seeds	IS 3579	0.1 to 10 g/100g
		Moisture	IS 3579	1 to 10g/100g
<b>b.</b>	<b>Mustard Seeds</b>	Moisture	IS 3579	1 to 10 g/100g
		Oil Content	IS 3579	30 to 50 g/100g
		Free Fatty Acid (as Oleic	IS 3579	0.1 to 3 g/100g

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		Acid)		
		Impurities (Foreign Matter)	IS 3579	0.05 to 10 g/100g
		Damaged and Weevilled Seeds	IS 3579	0.1 to 20 g/100g
		Shrivelled Seeds	IS 3579	0.1 to 10 g/100g
<b>c.</b>	<b>Guar seed</b>	Volatile Matter	IS 7437	2 to 15 g/100g
		Whitish Seeds	IS : 4333 (Part 1)	20 to 100 g/100g
		Foreign Matter	IS : 4333 (Part 1)	0.1 to 10 g/100g
		Damaged Seeds	IS : 4333 (Part 1)	0.1 to 10 g/100g
<b>d.</b>	<b>Guar Gum</b>	Volatile Matter	IS 7437	2 to 15 g/100g
		Foreign Organic Matter	IS 7437	0.1 to 5 g/100g
		Protein	IS 7437/ IS :7219	1 to 15 g/100g
		Residue Insoluble in Acid	IS 3988	0.5 to 7 g/100g
<b>4.</b>	<b>Coffee and Cocoa Products</b>			
		Moisture	IS 2791	1 to 10g/100g
		Carbohydrates	AOAC	10 to 90 g/100g
		Energy (Total Calories)	IS 9487	1 to 1000 Kcal/100g
		Total Ash	IS 2791	1 to 10g/100g
		Solubility in Boiling Water	IS 2791	Qualitative
		Solubility in Cold Water at 16±2°C	IS 2791	Qualitative
<b>5.</b>	<b>Tea and Tea Products</b>			
		Moisture	IS 13853	1 to 10g/100g
		Alkalinity of the Water Soluble Ash	AOAC IS 13856	0.1 to 5g/100g
		Water Extract	AOAC / IS 13862	10 to 50g/100g
		Water Soluble Ash	AOAC / IS 13855	20 to 80g/100g
		Total Ash	IS 13854 / AOAC	1 to 10g/100g
		Iron Fillings	FSSAI Manual / IS 3633	10-500 mg/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
		Acid insoluble ash	IS 13857	0.02 to 5g/100g
		Crude Fibre	IS 10226 (Part-1)	5 to 20g/100g
		Polyphenol	ISO 14502-1	8 to 20 g/100g
<b>6.</b>	<b>Milk and Dairy Products</b>			
		Moisture	FSSAI Manual / IS 16072	1 to 100 g/100g
		Carbohydrate	IS 1656	1to 90 g/100g
		Flavour and Taste	IS 13334(Part 1)	Qualitative
		Total Solids	AOAC / IS :11622/ IS 13334 (Part 1)/ IS 12333	1 to 100 g/100g
		Milk Fat	IS 11721/ FSSAI Manual	0.05 to 40 g/100g
		Protein	IS 7219/ AOAC	1 to 40g/100g
		Total Ash	IS 14433	0.1 to 10 g/100g
		Titratable Acidity	IS 11766 / FSSAI Manual	12 to 18 ml of 0.1N NaOH/10g of SNF
		Ascorbic Acid (Vitamin C)	IS 5838	2 to 200 mg/100g
		Phosphorous	IS 14828	0.03 to 5 g/100g
		Solid Not Fat	IS 1479(Part-2)/ IS 13688	1 to 10g/100g
		Detection Cane Sugar	FSSAI Manual , Milk and Milk Product, Method No.1.2.1	Qualitative
		Detection of Starch in Milk	FSSAI Manual	Qualitative
		Detection of Added Urea in Milk	FSSAI Manual	Qualitative
		Detection of Ammonium Compounds in Milk	FSSAI Manual	Qualitative
		Tests for Presence of Sulphates in Milk	FSSAI Manual	Qualitative
		Detection of Sodium	FSSAI Manual	Qualitative

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		Chloride in milk		
		Detection of Nitrates (Pond Water) in Milk	FSSAI Manual	Qualitative
		Detection of Neutralizers in Milk	FSSAI Manual	Qualitative
		Test for Presence of Formalin in Milk	FSSAI Manual	Qualitative
		Test for Presence of Hydrogen Peroxide in Milk	FSSAI Manual	Qualitative
7.	<b>Sugar &amp; Sugar Products</b>	Sucrose	IS 15279/ AOAC / IS 6287	10 to 99 g/100g
		Sulphur Dioxide	IS15279	1 to 200 mg/kg
		Insoluble Matter	IS 15279	0.02 to 2g/100g
		Color	IS 15279 ICUMSA - GS9/1/2/3-8	5 to 500 ICUMSA
		Grain size retained on sieves (600,300,212) S-grade	IS 498	60 to 100g/100g
		Moisture / Loss on Drying	IS 15279	0.01 to 0.15g/100g
		Dirt, Iron filings and other extraneous matter	IS 5982	Qualitative
8.	<b>Nut &amp; Nut Products</b>	Moisture	IS 4684/ AOAC	0.1 to 10g/100g
		Total Ash	IS 4684	0.5 to 5 g/100g
		Acid Insoluble Ash	IS 4684	0.02 to 1 g/100g
		Fat	IS 4684	40 to 55 g/100g
		Protein	IS 4684	18 to 30 g/100g
9.	<b>Fruit and Vegetable Products</b>	Moisture	FSSAI Manual / IS 4625 IS 4624	0.05-98g/100g
		Acidity as Citric Acid	IS 2860	0.1 to 10g/100g
		pH	IS 3881	2 to 12
		Protein	IS 7219	0.5 to 30 g/100g

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		Added Colour	FSSAI Manual	Qualitative
		Vitamin-C	IS 5838	1.0 to 200mg/100g
		Sulphur Dioxide	AOAC	0.5 to 8000 mg/kg
		Crude Fibre	IS 10226(Part-I)	0.1 to 20 g/100g
		Peroxidase Test	FSSAI Manual IS 4625/ IS 4624	Qualitative
		Salt as NaCl	FSSAI Manual	0.5 to 20g/100g
<b>10.</b>	<b>Honey and Honey Products</b>	Specific gravity at 27°C	IS 4941	1.3000 to 1.5000
		Total reducing sugars	IS 4941	40 to 90 g/100g
		Sucrose	IS 4941	0.1 to 10 g/100g
		Fructose-Glucose ratio	IS 4941	0.5 to 5
		Ash	IS 4941	0.1 to 1 g/100g
		Acidity (Expressed as Formic Acid)	IS 4941	0.05 to 1 g/100g
		Fiehe's test	IS 4941	Qualitative
		Optical Density at 660nm	IS 4941	0.1 to 0.5
<b>11.</b>	<b>Infant Foods</b>	Total solids	AOAC	95 to 100 g/100g
		Acidity of Milk	AOAC	0.02 to 5 g/100g
		Titrateable Acidity	IS 11766 FSSAI Manual	12 to 18 ml of 0.1N NaOH/10g of SNF
		Dietary Fiber	AOAC	0.1 to 10 g/100g
		Ascorbic Acid (Vitamin C)	IS 5838	0.5 to 100 mg/100g
<b>12.</b>	<b>Edible Oils, Fats and Related Products</b>	Moisture	IS 548- (Part 1)	0.01 to 2g/100g
		Saponification Value	IS 548-(Part 1)	100 to 250
		Iodine Value	IS 548 (Part 1)	5 to 200
		Unsaponifiable Matter	IS 548 (Part 1)	0.05 to 1g/100g
		Melting Point	IS 548 (Part 1) / IS 3508	20 to 35°C
		Acid Value	IS 548 (Part 1)	0.1 to 10
		Free Fatty Acids	IS 548 (Part 1)	0.1 to 5g/100g
		Peroxide Value	IS 548 (Part 1)	0.1 to 20 meq/Kg
		Insoluble Impurities	IS 548 (Part 1)	0.01 to 5 g/100g

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		Specific Gravity	IS 548 (Part 1)	0.6 to 1.4
		Reichert-Meissl Value	IS 548(Part 1)	20-40g/100g
<b>13.</b>	<b>Spices &amp; Condiments</b>			
<b>a.</b>	<b>Chilli Powder</b>	Moisture	IS 1797	1 to 25 g/100g
		Color	ASTA Method	1 to 200 ASTA Colour
		Total Ash	IS 1797	2 to 30 g/100g
		Acid Insoluble Ash	IS 1797	0.02 to 15 g/100g
		Crude Fibre	IS 1797	1 to 40 g/100g
		Non Volatile Ether Extract	IS 1797	8 to 18g/100g
<b>b.</b>	<b>Turmeric Fingers</b>	Busha, Chaff, Dirt, Earth Clods & Stones	IS 3576	0.01 to 10g/100g
		Moisture	IS 1797	5 to 20g/100g
		Artificially Colouring Matter / Dyes	IS 3576	Qualitative
<b>c.</b>	<b>Whole Chilli</b>	Moisture	IS 1797	1 to 20 % by mass
		Extraneous Matter/ Foreign Matter	IS 2322 IS 1797	0.1 to 10g/100g
		Broken Chillies	IS 2322	0.1 to 40g/100g
		Insect Damaged Matter	IS 2322	0.1 to 20g/100g
		Unripe and Marked Fruits	IS 2322	0.1 to 20g/100g
		Color (Visual)	IS 2322	Qualitative
		Free from Moulds, Insects	IS 2322	Qualitative
		Odour and Flavour	IS 2322	Qualitative
<b>d.</b>	<b>Coriander Whole &amp; Powder</b>	Moisture	IS 1797	1 to 20 % by mass
		Total Ash	IS 1797	2 to 8 g/100g
		Acid Insoluble Ash	IS 1797	0.02 to 2 g/100g
		Non Volatile Ether Extract	IS 1797	10 to 30 g/100g
		Crude Fiber	IS 1797	5 to 40 g/100g
		Extraneous Matter	IS 2443	0.1 to 10g/100g
		Damaged Discolored	IS 2443	0.1 to 20g/100g
		Shrivelled	IS 2443	0.1 to 20g/100g

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		Weeviled	IS 2443	0.1 to 10g/100g
		Fruits Splits	IS 2443	0.1 to 50g/100g
<b>e.</b>	<b>Turmeric Powder</b>	Moisture	IS 1797	5 to 20 % by mass
		Total Ash	IS 1797	1 to 10g/100g
		Acid Insoluble Ash	IS 1797	0.02 to 2.5g/100g
		Chromate Test	IS 3576	Qualitative
		Starch	IS 4706(Part-2)	55 to 70g/100g
		Curcumin	IS 10925	0.1 to 10g/100g
<b>f.</b>	<b>Pepper</b>	Moisture	IS 1797	1 to 20% by mass
		Piperine	ASTA Method	0.5 to 10g/100g
		Light Berries	IS 1798	0.1 to 10g/100g
		Extraneous Matter	IS 1797	0.05 to 10g/100g
<b>g.</b>	<b>Cumin (Whole)</b>	Moisture	IS 1797	1 to 20 % by mass
		Total Ash	IS 1797	2 to 10g/100g
		Acid Insoluble Ash on dry basis	IS 1797	1 to 5g/100g
		Volatile Oil	IS 1797	0.05 to 10 ml/100g
		Non-Volatile Ether Extract	IS 1797	10 to 25g/100g
<b>h.</b>	<b>Fenugreek, Whole and Powder</b>	Moisture	IS 1797	1 to 20 % by mass
		Total Ash on Dry Basis	IS 1797	2 to 9g/100g
		Dilute HCl Insoluble Ash on dry basis	IS 1797	0.05-5g/100g
		Cold Water Soluble Extract on dry basis	IS 1797	25 to 40g/100g
		Edible Seeds other than Fenugreek	IS 1797	0.1 to 10g/100g
<b>E.</b>	<b>Cardamom</b>	Moisture	IS 1797	1 to 20 % by mass
		Volalile oil	IS 1797	0.05to 10 ml/100g
		Total Ash on dry basis	IS 1797	2 to 10g/100g
		Acid Insoluble Ash on dry	IS 1797	0.05 to 5g/100g



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		basis				
14.	Edible common Salt / Iodized salt/ Fortified Salt	Moisture	IS 7224/ IS 253	0.1 to 6g/100g		
		Water Insoluble Matter	IS 7224/ IS 253/ AOAC	0.1 to 1g/100g		
		Chloride Content (as NaCl)	IS 7224/ IS 253	95 to 100g/100g		
		Matter soluble in water other than Sodium Chloride	IS 7224/ IS 253	0.1 to 3g/100g		
		Calcium (as Ca)	IS 7224/ IS 253	0.01 to 0.1g/100g		
		Sulphate ( as SO <sub>4</sub> )	IS 7224/ IS 253	0.01 to 0.6g/100g		
		Alkalinity as Na <sub>2</sub> CO <sub>3</sub>	IS 7224 /IS 253	0.02 to 0.5g/100g		
		Iodine Content	IS 7224	10 to 100 mg/kg		
II.	<b>ANIMAL FOOD &amp; FEED</b>					
1.	Pet Food	Acid Insoluble Ash (or) Sand and Silica	IS 7874 (Part 1)	0.1 to 2.5g/100g		
		Salt as NaCl	IS 7874(Part 2)	0.1 to 5g/100g		
		Crude Fiber	IS 7874 (Part 1)/ AOAC	5 to 35g/100g		
		Crude Fat	IS 7874 (Part 1)/ AOAC	0.1 to 10g/100g		
		Protein	IS 7874 (Part 1)/ AOAC	15 to 50g/100g		
		Moisture	IS 7874 (Part 1)	1 to 15g/100g		
		Total Ash	IS 7874 (Part 1)/ AOAC	0.5 to 10g/100g		
		Phosphorous	IS 14828	0.05 to 3g/100g		
		2.	Guar Meal	Moisture	IS 7874 (Part 1)	1 to 15g/100g
				Total Ash	IS 7874 (Part 1)/ AOAC	0.5 to 10g/100g
Protein	IS 7874 (Part 1)/ AOAC			15 to 75g/100g		
Crude Fat	IS 7874 (Part 1)/ AOAC			0.5-25g/100g		
Acid Insoluble Ash (or) Sand and Silica	IS 7874 (Part 1)			0.1 to 2.5g/100g		
		Crude Fiber	IS 7874(Part I)/ AOAC	5 to 35g/100g		

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		Phosphorous	IS 14828	0.05to 3g/100g
3.	<b>Poultry Feed Supplements</b>	Moisture	IS 7874 (Part 1)	1 to 15g/100g
		Total Ash	IS 7874 (Part 1)/ AOAC	0.5 to 10g/100g
		Protein	IS 7874 (Part 1)/ AOAC	15 to 75g/100g
		Crude Fat	IS 7874 (Part 1)/ AOAC	0.5 to 25g/100g
		Acid Insoluble Ash (or) Sand and Silica	IS 7874 (Part 1)	0.1 to 2.5g/100g
		Crude Fiber	IS 7874(Part I)/ AOAC	5 to 35g/100g
		Phosphorous	IS 14828	0.05to 3g/100g