

Laboratory RCA Laboratories, 501/502/522 & 213, Milan Industrial Estate,
 Abhudaya Nagar, Cotton Green, Mumbai, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6906 (in lieu of T-3208 & T-0755) **Page 1 of 58**

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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.	FOODS & AGRICULTURAL PRODUCTS			
1.	Animal Feed (Soyabean Meal, Rapeseed Meal)	Aerobic Microbial Count	IS : 5402 : 2012	10 cfu/gm and above
		Yeast & Mould	IS : 5403 : 1999 (RA 2009)	10 cfu/gm and above
		Coliform Count	IS : 5401 (P – I) 2012	10 cfu/gm and above
		E.coli (Isolation)	IS : 5887 (Part – I) 1976 (RA 2009)	Present or absent/ 25 gm
		Salmonella	IS : 5887 (Part – III) : 1999 (RA 2009)	Present or absent/ 25 gm
		S.aureus (Isolation)	IS : 5887 (Part – II) 1976 (RA 2009)	Present or absent/ 25 gm
		Shigella spp	IS : 5887 (Part – VII) : 1999 (RA 2009)	Present or absent/ 25 gm
		Bacillus Cereus	IS : 5887 (Part – VI) : 2012	100 cfu/gm and above
		Faecal Coliforms	BAM Chapter 4 2002	3 MPN / gm
		Faecal Streptococci	IS 5887 (Part – II) : 1976 (RA 2009)	100 cfu/gm and above
2.	Bakery and Confectionery Products (Biscuit, Chocolate)	Aerobic Microbial Count	IS : 5402 : 2012	10 cfu/gm and above
		Yeast & Mould	IS : 5403 : 1999 (RA 2009)	10 cfu/gm and above
		Coliform Count	IS : 5401 (P – I) 2012	10 cfu/gm and above
		E.coli (Isolation)	IS : 5887 (Part – I) 1976 (RA 2009)	Present or absent/ 25 gm
		S.aureus (Isolation)	IS : 5887 (Part – II) 1976 (RA 2009)	Present or absent/ 25 gm
3.	Beverages (Alcoholic and Non - Alcoholic) (Cold Drink , Juices)	Aerobic Microbial Count	IS : 5402 : 2012	1 cfu/gm and above
		Yeast & Mould	IS : 5403 : 1999 (RA 2009)	1 cfu/gm and above
		Coliform Count	IS : 5401 (P – I) 2012	1 cfu/gm and above
4.	Canned and Processed Food	Aerobic Microbial Count	IS : 5402 : 2012	10 cfu/gm and above
		Yeast & Mould	IS : 5403 : 1999 (RA 2009)	10 cfu/gm and above

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	(Canned Rasgulla, Traditional Sweets, Farsan)	Coliform Count	IS : 5401 (P – I) 2012	10 cfu/gm and above
		E.coli (Isolation)	IS : 5887 (Part – I) 1976 (RA 2009)	Present or absent/ 25 gm
		Salmonella	IS : 5887 (Part – III) : 1999 (RA 2009)	Present or absent/ 25 gm
		S.aureus (Isolation)	IS : 5887 (Part – II) 1976 (RA 2009)	Present or absent/ 25 gm
5.	Sugar and Sugar Products (Refined, Raw, Brown Sugar, Molasses)	Mesophilic Bacterial Count	ICUMSA GS 2/3 – 41 (2011)	10 cfu/gm and above 10 cfu/10 gm and above
		Thermophilic Spore Forming Bacteria	ICUMSA GS 2/3 – 49 (1994)	10 cfu/gm and above 10 cfu/10 gm and above
		Yeast and Mould	ICUMSA GS2/3 – 47 (1998)	10 cfu/gm and above 10 cfu/10 gm and above
6.	Cereal, Pulses and Cereal Products (Wheat, Rice and Maize)	Aerobic Microbial Count	IS : 5402 : 2012	10 cfu/gm and above
		Yeast & Mould	IS : 5403 : 1999 (RA 2009)	10 cfu/gm and above
		Coliform Count	IS : 5401 (P – I) 2012	10 cfu/gm and above
		E.coli (Isolation)	IS : 5887 (Part – I) 1976 (RA 2009)	Present or absent/ 25 gm
		Salmonella spp.	IS : 5887 (Part – III) : 1999 (RA 2009)	Present or absent/ 25 gm
		S.aureus (Isolation)	IS : 5887 (Part – II) 1976 (RA 2009)	Present or absent/ 25 gm
		Shigella spp	IS : 5887 (Part – VII) : 1999 (RA 2009)	Present or absent/ 25 gm
		Enterobacteriaceae	IS/ISO 7402:1993 RA 2007	10 cfu/gm and above
		Bacillus Cereus	IS : 5887 (Part – VI) : 2012	10 cfu/gm and above
7.	Egg & Egg Products	Salmonella	IS : 5887(Part-III) : 1999 (RA 2009)	Present or Absent /25gm
		Listeria Monocytogens	FDA BAM Chap 10 April 2011. IS 14988 (Part 1) 2001,(RA2012)	Present or Absent /25gm
8.	Fish & Sea Foods (Raw Fish, Canned Fish)	Aerobic Microbial Count	IS : 5402 : 2012	10 cfu/gm and above
		Yeast & Mould	IS : 5403 : 1999 (RA 2009)	10 cfu/gm and above
		Coliform Count	IS : 5401 (P – I) 2012	10 cfu/gm and above

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		E.coli (Isolation)	IS : 5887 (Part – I) 1976 (RA 2009)	Present or absent/ 25 gm
		Salmonella	IS : 5887 (Part – III) : 1999 (RA 2009)	Present or absent/ 25 gm
		S.aureus (Isolation)	IS : 5887 (Part – II) 1976 (RA 2009)	Present or absent/ 25 gm
		Listeria Monocytogens	FDA BAM chap 10 April 2011. IS 14988 (Part 1) 2001,(RA 2012)	Present or absent /25gm
		Vibrio Cholerae	IS : 5887 (Part- V) : 1976 (RA 2009)	Present or absent /25gm
		Vibrio Parahemolyticus	IS : 5887 (Part- V) : 1976 (RA 2009)	Present or absent /25gm
9.	Fruits and Fruits Products (Orange, Mango Drink)	Aerobic Microbial Count	IS : 5402 : 2012	10 cfu/gm and above
		Yeast & Mould	IS : 5403 : 1999 (RA 2009)	10 cfu/gm and above
		Coliform Count	IS : 5401 (P – I) 2012	10 cfu/gm and above
		E.coli (Isolation)	IS : 5887 (Part – I) 1976 (RA 2009)	Present or absent/ 25 gm
10.	Herbs, Spices & Condiments (Chilly Powder, Coriander Powder, Turmeric Powder)	Aerobic Microbial Count	IS : 5402 : 2012	10 cfu/gm and above
		Yeast & Mould	IS : 5403 : 1999 (RA 2009)	10 cfu/gm and above
		Salmonella	IS : 5887 (Part – III) : 1999 (RA 2009)	Present or absent/ 25 gm
11.	Honey and Honey Products	Aerobic Microbial Count	IS : 5402 : 2012	10 cfu/gm and above
		Yeast & Mould	IS : 5403 : 1999 (RA 2009)	10 cfu/gm and above
12.	Jams, Juices , Sauces and Concentrates (Sauces and Juices)	Aerobic Microbial Count	IS : 5402 : 2012	10 cfu/gm and above
		Yeast & Mould	IS : 5403 : 1999 (RA 2009)	10 cfu/gm and above
		Coliform Count	IS : 5401 (P – I) 2012	10 cfu/gm and above
		E.coli (Isolation)	IS : 5887 (Part – I) 1976 (RA 2009)	Present or absent/ 25 gm
		Heat Resistant Molds	APHA chap 21 Detection and enumeration of heat resistant molds pp 217-222	10 cfu/gm and above

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		S.aureus (Isolation)	IS : 5887 (Part – II) 1976 (RA 2009)	Present or absent/ 25 gm
		Salmonella	IS : 5887 (Part – III) : 1999 (RA 2009)	Present or absent/ 25 gm
13.	Meat and Meat Products (Raw Meat, Meat Loaf, Sausages, Bacon, Ham, Salami)	Aerobic Microbial Count	IS : 5402 : 2012	10 cfu/gm and above
		Yeast & Mould	IS : 5403 : 1999 (RA 2009)	10 cfu/gm and above
		Coliform Count	IS : 5401 (P – I) 2012 IS : 5401 (P-II) 2012	10 cfu/gm and above
		E.coli (Isolation)	IS : 5887 (Part – I) 1976 (RA 2009)	Present or absent/ 25 gm
		Salmonella	IS : 5887 (Part – III) : 1999 (RA 2009)	Present or absent/ 25 gm
		S.aureus (Isolation)	IS : 5887 (Part – II) 1976 (RA 2009)	Present or absent/ 25 gm
		Listeria Monocytogens	FDA BAM chap 10 April 2011. IS 14988 (Part 1) 2001, (RA 2012)	Present or absent /25gm
		Vibrio Cholerae	IS : 5887 (Part- V) : 1976 (RA 2009)	Present or absent /25gm
		Vibrio Parahemolyticus	IS : 5887 (Part- V) : 1976 (RA 2009)	Present or absent /25gm
		Enterobacteriaceae	IS/ISO 7402 : 1993 RA 2007	10 cfu/gm and above
14.	Milk and Dairy Products (Raw milk Ice-Cream, Cream, Yogurt)	Aerobic Microbial Count	IS : 5402 : 2012	1 cfu/gm and above 10 cfu/gm and above
		Yeast & Mould	IS : 5403 : 1999 (RA 2009)	1 cfu/gm and above 10 cfu/gm and above
		Coliform Count	IS : 5401 (P – I) 2012	1 cfu/gm and above 10 cfu/gm and above
		E.coli (Isolation)	IS : 5887 (Part – I) 1976 (RA 2009)	Present or absent/ 25 gm
		Salmonella	IS : 5887 (Part – III) : 1999 (RA 2009)	Present or absent/ 25 gm

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		S.aureus (Isolation)	IS : 5887 (Part – II) 1976 (RA 2009)	Present or absent/ 25 gm
		Shigella spp	IS : 5887 (Part – VII) : 1999 (RA 2009)	Present or absent/ 25 gm
		Closteridia Prefringens	IS : 5887 (Part – IV) 1976 (RA 2009)	Present or absent/ 25 gm/ml
		Enterobacteriaceae	IS / ISO 7402 : 1993 RA 2007	1 cfu/ml and above 10 cfu/gm and above
15.	Milk and Dairy Products (Ice - Cream)	Thermophilic Count	IS : 1479 (Part – III) 1997 (RA 2009)	1 cfu/ml and above 10 cfu/gm
		Psychrophilic Bacteria	IS : 1479 (Part – III) 1997 (RA 2009)	Present or absent / 10 gm or 10 ml
		Listeria Monocytogens	FDA BAM chap 10 April 2011, IS 14988 (Part I) 2001 , (RA 2012)	Present or absent / 25 gm or 25 ml
16.	Poultry and Poultry Products (Raw Chicken)	Aerobic Microbial Count	IS : 5402 : 2012	10 cfu/gm and above
		Yeast & Mould	IS : 5403 : 1999 (RA 2009)	10 cfu/gm and above
		Coliform Count	IS : 5401 (P – I) 2012	10 cfu/gm and above
		E.coli (Isolation)	IS : 5887 (Part – I) 1976 (RA 2009)	Present or absent/ 25 gm
		Salmonella	IS : 5887 (Part – III) : 1999 (RA 2009)	Present or absent/ 25 gm
		S.aureus (Isolation)	IS : 5887 (Part – II) 1976 (RA 2009)	Present or absent/ 25 gm
		Listeria Monocytogens	FDA BAM chap 10 April 2011. IS 14988 (Part 1) 2001,(RA 2012)	Present or absent /25gm
		Vibrio Cholerae	IS : 5887 (Part- V) : 1976 (RA 2009)	Present or absent /25gm
		Vibrio Parahemolyticus	IS : 5887 (Part- V) : 1976 (RA 2009)	Present or absent /25gm

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II.	WATER			
I.	Drinking Water	E.coli	IS : 1622 : 1981 (RA 2009)	2 to 1600 MPN/100 ml
		Coliform	IS : 1622 : 1981 (RA 2009)	2 to 1600 MPN/100 ml
		Faecal Coliform	IS : 1622 : 1981 (RA 2009)	2 to 1600 MPN/100 ml
2.	Packaged Drinking Water	E.coli	IS : 15185 : 2002	Present or Absent/ 100 ml to 250 ml
		Coliform	IS : 15185 : 2002	Present or Absent/ 100 ml to 250 ml
		Faecal Streptococci	IS : 15185 : 2002	Present or Absent/ 100 ml to 250 ml
		Staphylococcus aureus	IS : 5887 (Part – II) : 1976 (RA 2009)	Present or Absent/ 100 ml to 250 ml
		Sulfite – Reducing Anaerobes	IS : 13428 : 2005 Annex C	Present or Absent/50 ml
		Pseudomonas Aeruginosa	IS : 13428 : 1999 (RA 2009)	Present or Absent/ 100 ml to 250 ml
		Yeast and Mould	IS : 5403 : 1999 (RA 2009)	Present or Absent/ 100 ml to 250 ml
		Aerobic Microbial Count at 37 °C	IS : 5402 : 2012	1 cfu/ml and above
		Aerobic Microbial Count at 22 °C	IS : 5402 : 2012	1 cfu/ml and above
		Salmonella	IS : 5887 (Part – III) : 1999 (RA 2009)	Present or Absent/ 100 ml to 250 ml
		Shigella	IS : 5887 (Part – VII) : 1999 (RA 2009)	Present or Absent/ 100 ml to 250 ml
		Vibrio Cholera	IS : 5887 (Part – V) : 1976 (RA 2005)	Present or Absent/ 100 ml to 250 ml
		Vibrio Parahemolyticus	IS : 5887 (Part – V) : 1976 (RA 2005)	Present or Absent/ 100 ml to 250 ml
3.	Packaged Natural Mineral Water	E.coli	IS : 15185 : 2002	Present or Absent/ 100 ml to 250 ml

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		Coliform	IS : 15185 : 2002	Present or Absent/ 100 ml to 250 ml
		Faecal Streptococci	IS : 15185 : 2002	Present or Absent/ 100 ml to 250 ml
		Staphylococcus aureus	IS : 5887 (Part – II) : 1976 (RA 2009)	Present or Absent/ 100 ml to 250 ml
		Sulfite – Reducing Anaerobes	IS : 13428 : 2005 Annex C	Present or Absent/50 ml
		Pseudomonas Aeruginosa	IS : 13428 : 1999 (RA 2009)	Present or Absent/ 100 ml to 250 ml
		Yeast and Mould	IS : 5403 : 1999 (RA 2009)	Present or Absent/ 100 ml to 250 ml
		Salmonella	IS : 5887 (Part – III) : 1999 (RA 2009)	Present or Absent/ 100 ml to 250 ml
		Shigella	IS : 5887 (Part – VII) : 1999 (RA 2009)	Present or Absent/ 100 ml to 250 ml
		Vibrio Cholera	IS : 5887 (Part – V) : 1976 (RA 2005)	Present or Absent/ 100 ml to 250 ml
		Vibrio Parahemolyticus	IS : 5887 (Part – V) : 1976 (RA 2005)	Present or Absent/ 100 ml to 250 ml
4.	Water for Processed Food Industry	Proteolytic Count	IS : 4251 : 1967 (RA 2009)	1 cfu / ml and above
		Lypolytic Count	IS : 4251 : 1967 (RA 2009)	1 cfu / ml and above
5.	Water Purifier UV-Based Water Purifiers	Disinfection Efficacy Against Micrococcus Luteus	IS : 14724 : 1999 Amndt 2 Annex A (Clause 6.2.2.3)	0 – 99.9 %
III.	COSMETICS & ESSENTIAL OILS			
1.	Cosmetics & Essential Oils	Aerobic Microbial Count	IS : 14648 : 2011	10 cfu/gm or ml and above
		Yeast and Mould	IS : 14648 : 2011	10 cfu/gm or ml and above
		Gram – ve - Pathogen	IS : 14648 : 2011	Present or Absent / gm or 10 gm

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CHEMICAL TESTING

I.	FOODS & AGRICULTURAL PRODUCTS			
1.	Cereals , Pulses & by-Product	Refractions	IS 4333-Part 1 (1996) Reaffirmed 2012 / IS 10768 (1984) Reaffirmed 2010	0 to 20% (m/m)
		Detection of Hectoliter Weight	IS 4333-Part 3 (2002) Reaffirmed 2012	60 to 90 Kg/hl
		Moisture	IS 4333-Part 3 (2002) Reaffirmed 2012 / IS 1009 (1979) Reaffirmed 2010 / IS 1155 (1968) Reaffirmed 2010 / AOAC 925.10 (20 th Edition) 2016	5 to 20% (m/m)
		Ash	IS 1155 (1968) Reaffirmed 2010 / IS 1009 (1979) Reaffirmed 2010 / AOAC 923.03 (20 th Edition) 2016	0.1 to 3.0% (m/m)
		Acid Insoluble Ash	IS 1009 (1979) Reaffirmed 2010 / IS 1155 (1968) Reaffirmed 2010	0.01 to 1.0% (m/m)
		Wet Gluten	IS 8162 (1998) Reaffirmed 2009 / GAFTA-130(26:1)2014	20 to 35% (m/m)
		Dry Gluten	IS 1009 (1979) Reaffirmed 2010 / IS 1155 (1968) Reaffirmed 2010	7 to 15% (m/m)
		Protein / Crude Protein	AOAC 920.87 (20 th Edition)2016 / IS 7219 (1973) Reaffirmed 2010	7 to 15% (m/m)
		Alcoholic Activity	IS 1009 (1979) RA 2010 / IS 1155 (1968) RA 2010	0.01 to 0.2% (m/m)

Battal Singh
Convenor

N. Venkateswaran
Program Director

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		Wheat Sedimentation Index / Value	IS 13864 Reaffirmed 2010	15 to 25 ml
		Potassium Bromate / Iodate in Flour	AOAC 956.03 (20 th Edition) 2016	Qualitative
		Aflatoxin (TLC)	IS 13427 (1992) Reaffirmed 2013	≤ 10 ppb (Limit Test)
		Aflatoxin (HPLC)	RCAL/MUM/CHEM/SOP No. 27 Issue no.1 Issue Date 28.10.2017	1 to 50 ppb
		Uric Acid	IS 4333-Part 5 (1970) Reaffirmed 2010	0 to 100 mg/100g
		Crude Fibre	IS 1155 (1968) Reaffirmed 2010 / IS 2239 (1971) Reaffirmed 2004	0.1 to 15% (m/m)
		Ergot	IS 8184 (1976) Reaffirmed 2015	Qualitative
2.	Animal Feeds (Extractions/ De-Oiled Cakes)	Moisture	GAFTA 130 (2:1) 2014 / IS 7874-Part 1(1975) Reaffirmed 2014 / AOAC 930.15 (20 th Edition) 2016	5 to 15% (m/m)
		Protein / Crude Protein	GAFTA 130 (4:1) 2014 / IS 7874-Part 1(1975) Reaffirmed 2014 / AOAC 984.13 (20 th Edition) 2016	20 to 65% (m/m)
		Oil	GAFTA 130 (3:0) 2014 / IS 7874-Part 1(1975) Reaffirmed 2014 / AOAC 920.39 (20 th Edition) 2016	0.5 to 20% (m/m)
		Crude Fiber	GAFTA 130 (3:0) 2014 / IS 7874-Part 1(1975) Reaffirmed 2014 / IS 2052 (2009)	1 to 40% (m/m)

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		Ash	GAFTA 130 (11:0) 2014 / IS 7874-Part 1(1975) Reaffirmed 2014	1 to 15% (m/m)
		Acid Insoluble Ash	GAFTA 130 (12:0) 2014 / IS 7874-Part 1(1975) Reaffirmed 2014	0.2 to 10% (m/m)
		Urease Activity	GAFTA 130 (22:0) 2014	0.05 to 2.0 mgN/g/min at 30°C
		Aflatoxin (TLC)	AOCS Ab 6-68 (1999) / IS 13427-1992	< 10 ppb (Limit Test)
		Calcium	GAFTA 130 (14:1) 2014 / IS 7874-Part 2(1975) Reaffirmed 2009 / AOAC 927.02 (20 th Edition) 2016	0.1 to 8% (m/m)
		Phosphorus	GAFTA 130 (8:0) 2014 / AOAC 965.17 (20 th Edition) 2016	0.1 to 5% (m/m)
		Ammonical Nitrogen	IS 7874-Part 1(1975) Reaffirmed 2014	0.1 to 1.0% (m/m)
		Urea	AOAC 967.07 (20 th Edition) 2016 / GAFTA 130 (6:0) 2014	0.1 to 0.5% (m/m)
3.	Sugar & By-Products			
a.	Raw Sugar	Polarization	ICUMSA GS 1/2/3 -2 (2009) / ICUMSA GS 1/2/3/9-1 (2011) / IS – 15279 (2003) Reaffirmed 2013	70.0 to 99.8 °Z
		Moisture	ICUMSA GS 2/1/3-15 (2007) (Amended) /IS 15279 (2003) (Reaffirmed 2013)	0.04 to 5.0% (m/m)

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		Sulphated Ash	ICUMSA GS 1 – 10 (Amended) (1998) / IS – 15279 (2003) Reaffirmed 2013	0.01 to 1.0% (m/m)
		Colour	ICUMSA GS 1/3 – 7 (2011) ICUMSA GS 9/1/2/3 – 8 (2011)	300 to 5000 Units
		Reducing Sugar	ICUMSA GS 1/3/7 – 3 (2005) / ICUMSA GS 1 – 5 (2009)	0.05 to 2.0% (m/m)
		Dextran	ICUMSA GS 1/2/9 – 15 (2015)	10 to 800 mg
		Conductivity Ash	ICUMSA GS 1/3/4/7/8-13(1994) / IS 15279(2003) Reaffirmed 2013	0.01 to 0.5 (m/m)
		Starch	ICUMSA GS 1 – 16 (2013)	50 to 300 mg/kg
b.	Refined Sugar	Polarization	ICUMSA GS 2/3 -1 (2011) / IS – 15279 (2003) (Reaffirmed 2013)	95.0 to 99.9 °Z
		Moisture	ICUMSA GS 2/1/3/9-15 (2007) / IS – 15279 (2003) (Reaffirmed 2013)	0.01 to 0.1 % (m/m)
		ICUMSA Colour	ICUMSA GS 2/3-9 (2005) GS 2/3-10 (2011) GS 9/1/2/3-8 (2011) IS – 15279 (2003) (Reaffirmed 2013)	20 to 300 ICUMSA Units
		Calcium	ICUMSA GS 8/2/3/4 -9 (2000)	0.2 to 0.5% (m/m)
		Sulphite by Colorimetry	ICUMSA GS 2/1/7/9-33 (2011) / IS – 15279 (2003) (Reaffirmed 2013)	1 to 100 ppm

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		Insoluble Matter	ICUMSA GS 2/3/9-19 (2007) / IS – 15279 (2003) (Reaffirmed 2013)	0.005 to 1.0% (m/m)
		Reducing Sugar	ICUMSA GS 2/3/9-5 (2011) ICUMSA GS 2/9-6 (2011) / IS – 15279 (2003) Reaffirmed 2013	0.002 to 0.05% (m/m)
		Conductivity Ash	ICUMSA GS 2/3/9 – 17 (2011) / IS 15279 (2003) Reaffirmed 2013	0.005 to 0.1% (m/m)
		Sulphated Ash	IS 15279 (2003) Reaffirmed 2013	0.02 to 0.1% (m/m)
		Copper	ICUMSA GS 2/3 – 29	1 to 5 mg/kg
		Iron	ICUMSA GS 2/3/7/8 - 31	1 to 5 mg/kg
		Turbidity	GS 2/3-18 (2013)	1 to 100 ICUMSA units
c.	Molasses	Total Reducing Sugar / Reducing Sugar	GAFTA 130 (2003) ICUMSA GS 4/3-7(2011), ICUMSA GS 4/3-3 (2011)	30 to 60% (m/m)
		Sucrose	GAFTA 130 (11:2) 2014	30 to 40% (m/m)
		Refractometric Dry Substance (RDS %)	ICUMSA GS 4 /3/8- 13 (2009)	70 to 90% (m/m)
		Apparent Dry Substance (Brix)	ICUMSA GS 4 – 15 (1994)	70 to 90% (m/m)
		Sulphated Ash	ICUMSA GS1/3/4/7/8-11 (2000)	2.0 to 20.0% (m/m)
		Moisture	GAFTA 130 (2:4) 2014	15 to 30% (m/m)
d.	Jaggery (Gur)	Sucrose	IS-12923 (1990) / IS -15279 (2003) Reaffirmed 2012	70 to 90% (m/m)
		Reducing Sugar	IS-12923 (1990) / IS -15279 (2003) Reaffirmed 2012	1 to 20% (m/m)
		Moisture	IS-12923 (1990) / IS -15279 (2003) (Reaffirmed 2012)	1 to 15% (m/m)

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		Water Insoluble Matter	IS-12923 (1990) / IS -15279 (2003) (Reaffirmed 2012)	0.1 to 4% (m/m)
		Sulphated Ash	IS-12923 (1990) / IS -15279 (2003) (Reaffirmed 2012)	0.1 to 6% (m/m)
		Sulphur Dioxide	IS-12923 (1990) / IS -15279 (2003) (Reaffirmed 2012)	1 to 100 mg/kg
		Acid insoluble in dilute hydrochloric acid (on dry basis)	IS-12923 (1990)	0.01 to 0.5% (m/m)
4.	Oil Seeds & by Products	Moisture	IS – 3579 (1966) (Reaffirmed 2015) / AOCS Ab 2-49 (1997) / Ai – 2 – 75 / Ac 2 – 41 / ISO 665 (2000)	1 to 12% (m/m)
		Oil Content	IS – 3579 (1966) (Reaffirmed 2015) / FOSFA (2005)	15 to 65% (m/m)
		FFA of Extracted Oil	IS – 3579 (1966) (Reaffirmed 2015)	0.1 to 10% (m/m)
		Aflatoxin (TLC)	IS 13427 (1992) (Reaffirmed 2015) / ISO 6651 (1987) /	≥ 10 ppb (Limit test)
		Aflatoxin (HPLC)	RCAL/MUM/CHEM/SOP NO.27 Issue no.1 Issue date 28.1 0.2017	1 to 50 ug/Kg
		Foreign Matter	IS – 3579 (1966) (Reaffirmed 2015)	0.1 to 10% (m/m)
		Refractions	IS – 3579 (1966) (Reaffirmed 2015)	0.1 to 10% (m/m)

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		Admixture	IS – 3579 (1966) (Reaffirmed 2011)	0.1 to 10% (m/m)
		Counts / Ounce Avoirdupois	FOSFA (2010)	30 to 150
5.	Oils, Fats & Related Products	Moisture & Volatile Matter	AOCS Ca 2c – 25 (2017) IS – 548 Part 1 (1964) (Reaffirmed 2015) ISO 662 (1998)	0.01 to 0.5% (m/m)
		Free Fatty Acid (FFA)	AOCS Ca 5a – 40 (2017) IS – 548 Part 1 (1964) (Reaffirmed 2015) ISO – 660 (1996)	0.02 to 10.0% (m/m)
		Saponification Value	AOCS Cd 3 – 25 (2017) / ASTM D 9493 / IS – 548 Part 1(1964) (Reaffirmed 2015)	150 to 260 mg KOH/g
		Unsaponification Value	IS – 548 Part 1(1964) (Reaffirmed 2015) AOCS Ca 6b – 53 (2017)	0.1 to 5% (m/m)
		Iodine Value	IS – 548 Part 1(1964) (Reaffirmed 2015) AOCS Cd 1d – 92 (2017) ISO 3961 (1996) /IP 84/ 93	2 to 150 units
		Refractive Index	AOCS Cc 7 – 25 (2017) / IS – 548 Part 1(1964) (Reaffirmed 2015)	1.300 to 1.700
		Specific Gravity / Density	IS – 548 Part 1(1964) (Reaffirmed 2015) AOCS To 1 b – 64 / AOCS Cc 10c – 95 (2017)	0.8000 to 1.0000 g/ml
		Colour	IS – 548 Part 1(1964) (Reaffirmed 2015) AOCS Cc 13e – 92 (2017) ISO 15305 (1998)	0.1 – 10 R 1 – 50 Y

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		Hydroxyl Value / Acetyl Value	AOCS Cd 4 – 40 (1999) / AOCS Cd 13-60 IS – 548 Part 1(1964) (Reaffirmed 2015)	150 to 170 mgKOH/gm
		Viscosity (Brookfield)	AOCS Ja 10 – 87 (2017)	6.3 to 10 centipoise/centistokes
		Insoluble Impurities	AOCS Ca 3a – 46 (2017) IS – 548 Part 1(1964) (Reaffirmed 2015) ISO 663 (2000)	0.01 to 1% (m/m)
		Acid Value	IS – 548 Part 1(1964) (Reaffirmed 2015) AOCS Cd 3d – 63 (2017) /	0.04 to 20 mgKOH/gm
		Peroxide Value	AOCS Cd 8 – 53 (2003) IS – 548 Part 1(1964) (Reaffirmed 2015)	0 to 15 meq/Kg
		Flash Point	AOCS Cc 9c – 95 (1997)	120 to 300°C
		Lecithin (as P and Phosphatide)	AOCS Ca 12 – 55 (2017)	20 to 300 mg/kg
		Cloud Point	AOCS Cc 6 – 25 (2017)	5 to 25°C
		Melting Point / Slip Point	IS – 548 Part 1(1964) (Reaffirmed 2015) AOCS Cc 1 – 25 (1997) / AOCS Cc 3 – 25 (2017) /	15 to 45 °C
		Titer	AOCS Cc 12 – 59 (1997) / AOCS Tr 1a 64	25 to 45 °C
		Fatty Acid Composition	AOCS Ce-1e-91 / ISO 5509	0.05 to 95.0% (m/m)
		Determination of Carotene in vegetable Oil	BS:684 Sec 2.20 : 1977	300 to 600 ppm
		Break Test	AOCS Ca 10 – 40	0.01 to 0.2 %(m/m)
		Cold Test	AOCS Cc 11 – 53	Qualitative

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		Conjugated Dienoic Acid	AOCS Ti 1a – 64	25 to 35% (m/m)
		Purity Tests--- 1.Baudouin 2.Halphen 3.Hexabromide 4.Aroemone 5.HydrocyanicAcid 6.Mineral Oil 7.BellierTurbidity 8.Castor Oil	IS 548 : Part II (1976) (Reaffirmed 2011)	Qualitative
6.	Spices and Condiments	Moisture (Water)	IS : 1797 (1985) (Reaffirmed 2009) AOAC 986.21 20 th Edition 2016	4 to 15 % (v/m)
		Refractions such as Foreign matter, filth etc.	IS : 1797 (1985) (Reaffirmed 2009) AOAC 960.51 20 th Edition 2016	0.1to 10 %(m/m)
		T/ Ash, W/S/ Ash, Acid Insoluble Ash	IS : 1797 (1985) (Reaffirmed 2009) AOAC 941.12 20 th Edition 2016	1 to 10 % (m/m)
		Alcohol Extract, Water Extract, Non Volatile Ether Extract	IS : 1797 (1985) (Reaffirmed 2009) AOAC 898.03 20 th Edition 2016	1 to 15 % (m/m)
		Volatile Oil	IS : 1797 (1985) (Reaffirmed 2009) AOAC 962.17 20 th Edition 2016	0.25 to 10.0 %(v/m)
		Curcumin Content in Turmeric	IS 3576 (2010) (Reaffirmed 2012) / IS 10925 (1984) (Reaffirmed 2012)	0.5 to 5 % (m/m)

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		Determination of Colour Value in Chili Powder / Chili Oleoresin	IS 13663 (1993) (Reaffirmed 2012)	1000 to 20000 Color Units
		Capsaicin	RCAL/MUM/CHEM/SOP NO.30 Issue no.2 Issue date 22.10.2017	100 to 1000 ppm
		Crude Fiber	IS : 1797 (1985) (Reaffirmed 2009)/ AOAC 920.169 20 th Edition 2016	1 to 30 %(m/m)
		Salt (Sodium Chloride)	IS : 1797 (1985) (Reaffirmed 2009)/	0.1 to 60 % (m/m)
7.	Milk Powder (Whole Skimmed, Partially Skimmed) Milk Cereal Based Weaning Food, Infant Milk Food, Infant Formula	Moisture Total Solids	IS 11623 (2012) / AOAC 990.20 20 th edition 2016	3 to 10 % (m/m)
		Milk Fat	IS 11721 (2010)/ ISO – 1736 (2008) AOAC 989.05 20 th Edition 2016	0.5 to 30 % (m/m)
		Total Ash	IS 1479 (Part-II)1961 (Reaffirmed 2012) / IS 1165 (2002 (Reaffirmed 2012) AOAC 945.46 20 th edition.2016 IS 14433 (Part-1): 1997(Reaffirmed 2012)	1 to 10 % (m/m)
		Titration Acidity as Lactic Acid	IS 11765 (1986) (Reaffirmed 2003) / IS 1165 (2002) (Reaffirmed 2012) / ISO – 6091 (1980) /	5 to 20 (ml/gm) 0.1 to 2 % (m/m)

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			IS – 11766 (1986) (Reconfirmed 2012) ISO – 6092 (1980) AOAC 947.05 20 th edition.2016	
		Protein (Nx6.38)	IS 1479(Part-II):1961 (Reaffirmed 2012) IS 7219:1973) (RA 2010) AOAC 930.29 20 th edition 2016	7 to 35 % (m/m)
		Lactose	IS 1479(Part-II):1961 (Reaffirmed 2012)	10 to 55 % (m/m)
		solid not fat (SNF)	IS 11766 – 1986 RA 2012	60to95
		Ash insoluble in HCL	IS 14433(Part-I): 2007(Reaffirmed 2012)	0.01 to 3.0 m/m
		Insolubility Index	IS 12759 : 1989 (RA 2010)	0.1 to 3.0 % m/m
8.	Liquid Milk	Detection of Adulterants in Milk 1) Added Starch 2) Added Urea 3)Ammonium Sulphate 4) Added Glucose 5)Sodium Chloride 6) Nitrates (Pond Water) 7)Neutralizer 8)Anionic Detergent 9) Skimmed Milk Powder 10) Formaldehyde 11) HydrogenPeroxide 12) Boric Acid & Borates 13)Salicylic Acid	FSSAI LAB MANUAL 1	Present / Absent

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9.	Starch	Moisture	IS : 4706 Part 2 (1978) (Reaffirmed 2010)	5 to 14 % (m/m)
		Ash	IS : 4706 Part 2 (1978) (Reaffirmed 2010)	to 0.6 % (m/m)
		Acid insoluble ash	IS : 4706 Part 2 (1978) (Reaffirmed 2010)	to 0.3% (m/m)
		Starch	IS : 4706 Part 2 (1978) (Reaffirmed 2010)	95 to 99 % (m/m)
		pH	IS : 4706 Part 2 (1978) (Reaffirmed 2010)	4.5 to 7.0
		Protein	IS : 4706 Part 2 (1978) (Reaffirmed 2010)	0.1 to 1.0 % (m/m)
		Crude Fibre	IS : 4706 Part 2 (1978) (Reaffirmed 2010)	0.2 to 0.5% (m/m)
		Alcoholic Acidity	IS : 4706 Part 2 (1978) (Reaffirmed 2010)	0.025 to 0.05 % m/m)
		Chloride	IS : 4706 Part 2 (1978) (Reaffirmed 2010)	0.002 to 0.01 % (m/m)
10.	Bakery and Confectionery Products (Biscuits)	Moisture	IS 12711 (1989) (Reaffirmed 2010) IS 1011 (2002) RA 2009	1 to 8% (m/m)
		Total Ash	IS 12711 (1989) (Reaffirmed 2010)	1 to 3% (m/m)
		Acid insoluble ash	IS 12711 (1989) (Reaffirmed 2010) IS 1011 (2002) RA 2009	0.01to 0.1% (m/m)
		Fat	IS 12711 (1989) (Reaffirmed 2010)	10 to 25% (m/m)
		Acidity of extracted Fat (as Oleic acid)	IS 12711 (1989) (Reaffirmed 2010) IS 1011 (2002) Reaffirmed 2009	0.1 to 1% (m/m)
		pH of aqueous extract	IS 12711 (1989) (Reaffirmed 2010)	1 to 7

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		Crude Fibre	IS 12711 (1989) (Reaffirmed 2010)	0.1 to 2% (m/m)
		Alcoholic Acidity	IS 12711 (1989) (Reaffirmed 2010)	0.1 to 0.2% (m/m)
		Protein	IS 7219 (1973) (RA 2010)	5 to 15% (m/m)
11.	Honey and Honey Products	Color	AOAC 985. 20 th Edition. 2016	Light amber to amber (Qualitative)
		Acidity (expressed as Formic Acid)	IS 4941 (1994) Reaffirmed 2008	0.01 to 0.2 % (m/m)
		Fructose/Glucose Ratio	IS 4941 (1994) Reaffirmed 2008	0.9 to 1.1
		Ash	IS 4941 (1994) Reaffirmed 2008	0.1 to 0.5% (m/m)
		Moisture	IS 4941 (1994) Reaffirmed 2008	2 to 20% (m/m)
		Total Reducing Sugar	IS 4941 (1994) Reaffirmed 2008	65 to 80 % (m/m)
		Specific Gravity at 27°C	IS 4941 (1994) Reaffirmed 2008	1.37 to 1.42
		Sucrose	IS 4941 (1994) RA 2008	1 to 5%(m/m)
12.	Fish & Fishery Products (Fish Meal /Fish Oil)	Ash	GAFTA-130 (11.0) 2014/	15 to 25 (m/m)
		pH of 1 % or 10 % aqueous solution	pH meter / RCAL/ MUM/ WI86 Date of issue 12.08.2013, Revision No.0	6 to 7
		Sulphite	AOAC 961.09 (20 th Edition. 2016)	Qualitative
		Total Phosphate (As P ₂ O ₅)	AOAC 964.06 (20 th Edition. 2016)	1.5 to 3.5% (m/m)
		Protein	GAFTA 130 (4:1) 2014/ISO 5983-2 :2009	50 to 70% (m/m)
		Moisture	GAFTA 130 (2:1) 2014/AOCS Ca2c-25	4 to 10 % / 0.1 to 0.5%
		Fat	GAFTA130(3:0) 2014/	5 to 20% (m/m)

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		Salt	AOAC 937.09 (20 th Edition 2016)	0.1 to 1.5%(m/m)
		Sand & Silica	GAFTA 130 (12.0) 2014/	0.5 to 2.5%(m/m)
		TVN	RCAL/MUM/CHEM/SOP NO.20 Issue no.2 Issue date 22.10.2017	50 to 400 mgN/100g
		FFA (Of extracted fat as Oleic acid)	AOCS Ca-5a-40 / RCAL/MUM/Chemical – WI/97	1 to 60 %(m/m)
		Histamine	RCAL/MUM/CHEM/SOP NO.24 Issue no.1 Issue date 20.10.2015	50 to 500 ppm
		Antioxidant-Ethoxyquin	RCAL/MUM/CHEM/SOP/26	2 to 500 mg/kg
		Impurities	AOCS Ca-3a-46	0.01 to 0.25%(m/m)
		Iodine Value	AOCS Cd-1d-92	150 to 170
		EPA / DHA	AOCS Ce 1b – 89	15 to 30% (m/m)
		Unsaponifiable Matter	AOCS Ca – 6b – 53	0.5 to 2.5 % (m/m)
		Acid Value	AOCS Cd – 3d – 63	2 to 30 mg KOH/g
		Peroxide Value	AOCS Cd – 8 – 53	1 to 5 meq/Kg
13.	Beverage Alcoholic and Non alcoholic (Tea and Coffee)	Total Ash (Dry Basis)	FSSAI Lab Manual – 4, 2015	4 to 8 % m/m
		Water Soluble Ash	FSSAI Lab Manual – 4, 2015	45 to 70 % m/m
		Alkalinity of Water soluble ash expressed as KOH	FSSAI Lab Manual – 4, 2015	1 to 3 % m/m
		Acid insoluble Ash	FSSAI Lab Manual – 4, 2015	0.1 to 10 % m/m
		Water Extract	FSSAI Lab Manual – 4, 2015	32 to 50 % (m/m)
		Crude Fiber	FSSAI Lab Manual – 4, 2015	10 to 30 % m/m

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14.	Spice and Spices Products	Trace Elements (Heavy Metal)		
		Cadmium	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE N0V 2016	0.01 to 100 mg/kg
		Iron (Fe)	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE N0V 2016	0.01 to 100 mg/kg
		Molybdenum (Mo)	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE N0V 2016	0.01 to 100 mg/kg
		Lead (Pb)	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE N0V 2016	0.01 to 100 mg/kg
		Zinc(Zn)	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE N0V 2016	0.01 to 100 mg/kg
		Copper (CU)	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE N0V 2016	0.01 to 100 mg/kg
		Arsenic (As)	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE N0V 2016	0.01 to 100 mg/kg
		Mercury (Hg)	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE N0V 2016	0.01 to 100 mg/kg
		Tin (Sn)	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE N0V 2016	0.01 to 100 mg/kg
15.	Animal Feeds and Products	Cadmium	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE N0V 2016	0.01 to 100 mg/kg
		Iron (Fe)	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE N0V 2016	0.01 to 100 mg/kg

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		Molybdenum (Mo)	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE NOV 2016	0.01 to 100 mg/kg
		Lead (Pb)	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE NOV 2016	0.01 to 100 mg/kg
		Zinc(Zn)	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE NOV 2016	0.01 to 100 mg/kg
		Copper (CU)	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE NOV 2016	0.01 to 100 mg/kg
		Arsenic (As)	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE NOV 2016	0.01 to100 mg/kg
		Mercury (Hg)	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE NOV 2016	0.01 to 100 mg/kg
		Tin (Sn)	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE NOV 2016	0.01 to 100 mg/kg
16.	Sugar and Confectionary & Dairy Product	Iron (Fe)	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE NOV 2016	0.01 to 100 mg/kg
		Molybdenum (Mo)	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE NOV 2016	0.01 to 100 mg/kg
		Lead (Pb)	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE NOV 2016	0.01 to 100 mg/kg
		Zinc(Zn)	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE NOV 2016	0.01 to 100 mg/kg

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		Copper (CU)	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE NOV 2016	0.01 to 100 mg/kg
		Arsenic (As)	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE NOV 2016	0.01 to 100 mg/kg
		Mercury (Hg)	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE NOV 2016	0.01 to 100 mg/kg
		Tin (Sn)	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE NOV 2016	0.01 to 100 mg/kg
		Cadmium (Cd)	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE NOV 2016	0.01 to 100 mg/kg
17.	Cereals: Rice, Wheat Atta & Pulse	Iron (Fe)	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE NOV 2016	0.01 to 100 mg/kg
		Molybdenum (Mo)	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE NOV 2016	0.01 to 100 mg/kg
		Lead (Pb)	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE NOV 2016	0.01 to 100 mg/kg
		Zinc(Zn)	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE NOV 2016	0.01to 100 mg/kg
		Copper (CU)	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE NOV 2016	0.01 to 100 mg/kg
		Arsenic (As)	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE NOV 2016	0.01 to 100 mg/kg

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		Mercury (Hg)	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE NOV 2016	0.01 to 100 mg/kg
		Tin (Sn)	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE NOV 2016	0.01 to 100 mg/kg
		Cadmium (Cd)	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE NOV 2016	0.01 to 100 mg/kg
18.	Ready to Eat Foods/Bakery , Confectionery Product	Nutritional value		
		Protein	IS 7219 (Reaffirmed 2005)	1 to 50 %
		Fat	RCAL/MUM/CHEM/SOP NO.34 Issue no.1 Issue date 20.10.2015	1 to 50 %
		Carbohydrate	IS : 2234 (1989)	1to 80%
		Dietary Fibre	IS 11062 (1984)	1 to 50 %
		Saturated Fat	IS 548 Part III (Reaffirmed 2006)	1 to 20%
		Monosaturated Fat	IS 548 Part III (Reaffirmed 2006)	1 to 20%
		Poly Unsaturated Fat	IS 548 Part III (Reaffirmed 2006)	1 to 20%
		Cholesterol	RCAL/MUM/CHEM/SOP NO.28, Issue no.1 Issue date 20.10.2015	5.0 to 50 mg/100gm
		Sodium & Potassium	RCAL/MUM/CHEM/SOP NO.33, Issue no.1 Issue date 20.10.2015	0.1to 1.0 %
		Iron	RCAL/MUM/CHEM/SOP NO.23, Issue no.1 Issue date 20.10.2015	0.1to 1.0 %

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		Calcium	RCAL/MUM/CHEM/SOP NO.40, Issue no.1 Issue date 20.10.2015	0.1 to 1.0 %
		Energy	By Calculation	---
		Sugar	IS 6287:1985 (RA 1999)	0 to 70 % (m/m)
II.	FERTILIZERS			
1.	Ammonium Sulphate	Moisture	FCO:1985 Sch II-B 2(ii)	0.1to10%
		Ammoniacal Nitrogen	FCO:1985 Sch II-B 3(vii)	0.1to30 %
		Sulphur (as S)	FCO:1985 Sch II-B 24(a)	0.1to 28%
2.	Urea	Moisture	FCO:1985 Sch II-B 2(i)	0.1to10%
		Total Nitrogen	FCO:1985 Sch II-B 3(iv)	0.1to 50%
3.	Calcium Ammonium Nitrate	Moisture	FCO:1985 Sch II-B 2(ii)	0.1to10%
		Total Ammoniacal & Nitrate Nitrogen	FCO:1985 Sch II-B 3(viii)	0.1to35%
		Ammoniacal Nitrogen	FCO:1985 Sch II-B 3(vii)	0.1to 20%
4.	Rock Phosphate	Moisture	FCO:1985 Sch II-B 2(i)	0.1to10%
		Total Phosphate(as P2O5)	FCO:1985 Sch II-B 4(ii)	0.1to30%
5.	Potassium Chloride (MOP)	Moisture	FCO:1985 Sch II-B 2(i)	0.1to10%
		Water soluble potash as K2O	FCO:1985 Sch II-B 5(ii)	0.1 to 65%
6.	Potassium Sulphate (SOP)	Moisture	FCO:1985 Sch II-B 2(ii)	0.1to10%
		Water soluble potash as K2O	FCO:1985 Sch II-B 5(ii)	0.1to60%
7.	Sulphur 90%	Moisture	FCO:1985 Sch II-B 2(ii)	0.1to10%
		Total sulphur (asS)	FCO:1985 Sch II-B 24(a)	0.1to92%
8.	NPK Complex Fertilisers	Moisture	FCO:1985 Sch II-B 2(i)	0.1to20%
		Total Nitrogen (InNitrate Free Sample)	FCO:1985 Sch II-B 3(iv)	0.1to40%
		Total Nitrogen (In Nitrate containing Sample)	FCO:1985 Sch II-B 3(v)	0.1to 40%

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		Total Nitrogen (Deverda Method)	FCO:1985 Sch II-B 3(viii)	0.1to 40%
		Ammoniacal Nitrogen	FCO:1985 Sch II-B 3(vii)	0.1to 35%
		Nitrate Nitrogen	FCO:1985 Sch II-B 3(viii)	0.1to35%
		Urea Nitrogen	FCO:1985 Sch II-B 3(ix)	0.1to50%
		Water Soluble potash (as K ₂ O)	FCO:1985 Sch II-B5(ii)	0.1to 40%
		Water soluble phosphate (as P ₂ O ₅)	FCO:1985 Sch II-B 4(iii)	0.1to 50%
9.	Zinc Sulphate Heptahydrate (ZnSO ₄ .7H ₂ O)	Zinc as Zn	FCO:1985 Sch II-B 7(iii)	0.1to 35 %
10.	Zinc Sulphate Monohydrate (ZnSO ₄ .H ₂ O)	Zinc as Zn	FCO:1985 Sch II-B 7(iii)	0.1to 35 %
11.	Ferrous Sulphate (FeSO ₄ .7H ₂ O)	Iron as Fe	FCO:1985 Sch II-B 13(iiiA)	0.1to30%
12.	Magnesium Sulphate	Magnesium as Mg	FCO:1985 Sch II-B 19(B)	0.1to 15%
13.	Borax (Sodium Tetraborate) (Na ₂ B ₄ O ₇ .10H ₂ O)	Boron as B	FCO:1985 Sch II-B 11(B)	0.1to 25%
14.	Boric acid (H ₃ BO ₃)	Boron as B	FCO:1985 Sch II-B 11(B)	0.1to 25%
15.	Di-Sodium Octa Borate Tetrahydrate	Boron as B	FCO:1985 Sch II-B 11(B)	0.1to25%
16.	Di-Sodium TetraBorate Penta Hydrate	Boron as B	FCO:1985 Sch II-B 11(B)	0.1to 25%
17.	NP Complex Fertilisers	Moisture	FCO:1985 Sch II-B 2(i)	0.1to 20%
		Total Nitrogen (In Nitrate Free Sample)	FCO:1985 Sch II-B 3(iv)	0.1to 40%

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		Total Nitrogen (In Nitrate containing Sample)	FCO:1985 Sch II-B 3(v)	0.1 to 40%
		Total Nitrogen (Deverda Method)	FCO:1985 Sch II-B 3(viii)	0.1to 40%
		Ammoniacal Nitrogen	FCO:1985 Sch II-B 3(v)	0.1to 35%
		Nitrate Nitrogen	FCO:1985 Sch II-B 3(viii)	0.1to35%
		Urea Nitrogen	FCO:1985 Sch II-B 3(ix)	0.1to 50%
		Water Soluble potash (as K ₂ O)	FCO:1985 Sch II-B5(ii)	0.1to40%
		Water soluble phosphate (as P ₂ O ₅)	FCO:1985 Sch II-B 4(iii)	0.1to 50%
III.	ORES & MINERAL			
1.	Iron Ore	Silica	IS 1493 (1981) - Part I (Reaffirmed 2016)	2.0 to 20.0 %
		Iron	IS 1493 (1981) - Part I (Reaffirmed 2016)	55.0 to 95.0 %
		Phosphorous	IS 1493 (1981) - Part I (Reaffirmed 2016)	0.05 to 0.2 %
		Sulphur	IS 1493 (1981) - Part I (Reaffirmed 2016)	0.1to 0.2 %
		Alumina	IS 1493 (1981) - Part I (Reaffirmed 2016)	1.0 to 8.0 %
2.	Bauxite	Loss on Ignition	IS 2000 (1985) – Part I (Reaffirmed 2006)	5.0 to 30.0 %
		Silica	IS 2000 (1985) – Part II (Reaffirmed 2006)	0.5 to 5.0 % 5.0 to 10.0 %
		Alumina	IS 2000 (1985) – Part III (Reaffirmed 2006)	12.0 to 90.0 %
		Iron Oxide	IS 2000 (1985) – Part IV (Reaffirmed 2006)	5.0 to 40.0 %

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		Titanium	IS 2000 (1985) – Part V (Reaffirmed 2006)	0.5 to 2.0 % 2.0 to 6.0 %
3.	Lime Stone & Dolomite	Loss on Ignition	IS 1760 (1991) – Part I (Reaffirmed 2006)	15.0 to 47.0 %
		Silica	IS 1760 (1991) – Part II (Reaffirmed 2006)	0.5 to 3.0 % 3.0 to 25.0 %
		Alumina	IS 1760 (1992) – Part III (Reaffirmed 2006)	0.5 to 5.0 %
		Calcium Oxide	IS 1760 (1992) – Part III (Reaffirmed 2006)	20.0 to 55.0 %
		Magnesium Oxide	IS 1760 (1992) – Part III (Reaffirmed 2006)	0.5 to 35.0 %
		Iron Oxide	IS 1760 (1992) – Part III (Reaffirmed 2006)	0.5 to 5.0 %
IV.	WATER			
1.	Water	PH	IS 3025 (1983) – Part II (Reaffirmed 2012)	2 to 12
	Packaged Drinking Water,	Total Hardness (As CaCO ₃)	IS 3025 (2009) – Part 21 (Reaffirmed 2009)	1 to 500 mg/LCaCO ₃
	Packaged Natural Mineral Water,	Color	IS 3025 (1983) – Part 4 (Reaffirmed 2012)	1 to 20 Hazen Units
	Drinking Water,	Odor	IS 3025 (1983) – Part 5 (Reaffirmed 2012)	Agreeable
	Water for Swimming Pool (Potable and Domestic/ Raw & Bore Water)	Taste	IS 3025 (1984) Part 8 (Reaffirmed 2012)	Agreeable
		Turbidity	IS 3025 (1984) Part 10 (Reaffirmed 2012)	1 to 10 NTU
		Chlorides	IS 3025 (1988) – Part 32 (Reaffirmed 2009)	1 to 500 mg/L
		Sulphates	IS 3025 (1986) – Part 24 (Reaffirmed 2009)	1 to 200 mg/L

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		Total Dissolved Solids	IS 3025 (1984) Part 16 (Reaffirmed 2012)	10 to 500 mg/L
		Suspended Solids	IS 3025 (1984) Part 17 (Reaffirmed 2012)	10 to 500 mg/L
		Acidity	IS 3025 (1986) – Part 22 (Reaffirmed 2009)	1 to 500 mg/L as CaCO ₃
		Total Alkalinity (as CaCO ₃)	IS 3025 (1986) – Part 23 (Reaffirmed 2009)	1 to 500 mg/L as CaCO ₃
		Conductivity	IS 3025 (1984) – Part No. 14 (Reaffirmed 2013)	2 to 500 us /cm
		Sulphite	IS 3025 (1986) Part No. 28 (Reaffirmed 2009)	0.1 to 20 mg/L
		Oil and Grease	IS 3025 (1991) – Part No. 39 (Reaffirmed 2009)	4 to 100 mg/L
		Phosphorous	IS 3025 (1988) – Part No. 31 (Reaffirmed 2009)	0.2 to 5 mg/L
		Residual Free Chlorine	IS 3025 (1986) – Part 26 (Reaffirmed 2009)	0.1 to 50 mg/L
		Phenolic Compound	IS 3025 (Part 43) : 1992 RA 2009	0.01 to 1 mg/L
		Anionic surface active agents as MBAS	APHA 5540 C.22 nd Edition 2012	0.1 to 0.5 mg/L
		Aluminum as Al	IS 3025 (Part 2) : 2004 RA : 2009	0.01 to 0.30 mg/L
		Ammonia (As total Amine – N)	IS 3025 (Part 34):1988 (Reaffirmed 2009)	0.2 to 10 mg/l
		Calcium	IS 3025 (Part 40) 1991 (Reaffirmed 2009)	1 to 500 mg/L
		Chloramine as Cl ₂	IS 3025 (Part 26) : 1986 (Reaffirmed 2009)	1 to 10 mg/L
		Fluoride	IS 3025 (Part 60) : 1986 (Reaffirmed 2008)	0.1to 5 mg/L

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		Magnesium as Mg	IS:3025 (Part 46):1994 RA2009 IS 3025 (Part 65): 2014	1 to 100mg/L
		Nitrate as NO ₃	IS 3025(Part 34):1998 (Reaffirmed 2009)	1 to 100 mg/L
		Nitrite as NO ₂	IS 3025(Part 34):1998 (Reaffirmed 2009)	0.005 to 1.0 mg/L
		Cyanide	APHA 22 nd Edition 2012 4500-CN-E/C	0.01 to 0.2 mg/L
		Sulphide	APHA 22 nd Edition 2012 4500-S ² -D	0.1 to 20.0 mg/L
		Barium as Ba	IS 13428:2005 (RA 2009) Annex F, IS 3025 (Part 65): 2014 IS 15302:2003 (RA 2009)	0.01 to 2 mg/L
		Boron	IS 3025 (Part 57) IS 3025 (Part 65): 2014	0.01 to 5 mg/L
		Copper	IS 3025 (Part 65): 2014	0.10 to 5 mg/L
		Iron as Fe	IS 3025 (Part 53) : 2003 RA : 2009 IS 3025 (Part 65): 2014	0.10 to 5 mg/L
		Antimony as Sb	Annex G IS13428 or IS 15303 IS 3025 (Part 65): 2014	0.002 to 0.5 mg/L
		Manganese as Mn	IS 3025(Part 59):2006 (RA:2012) IS 3025 (Part 65): 2014	0.10 to 1 mg/L
		Selenium as Se	IS 3025 (Part 56):2003 (RA:2009) IS 15303:2003(RA:2009)	0.01 to 1 mg/L
		Silver as Ag	Annex J of IS 13428 IS 3025 (Part 65) : 2014	0.01 to 1 mg/L

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		Zinc as Zn	IS 3025 (Part 49):1994 (RA2009). IS 3025 (Part 65): 2014	0.1 to 15mg/L
		Cadmium as Cd	IS 3025 (Part 41):2003 (RA2009) IS 3025 (Part 65): 2014	0.002to 0.3 mg/L
		Lead as Pb	IS 3025 (Part 47):1994 RA:2009 IS 3025 (Part 65): 2014	0.01 to 0.1 mg/L
		Mercury as Hg	IS: 3025(part 48)RA:2009 IS 3025 (Part 65): 2014	0.02 to 0.1 mg/L
		Molybdenum	IS 3025 (Part 65): 2014	0.05to 0.5 mg/L
		Nickel as Ni	IS 3025(Part 54) 1986 RA:2009 IS 3025 (Part 65): 2014	0.01 to 0.1 mg/L
		Arsenic as As	IS 3025 (Part 37):1988 (RA:2009) IS 3025 (Part 65): 2014	0.01 to 0.05 mg/L
		Total chromium as Cr	IS 3025(Part 52):1988 (RA:2009) IS 3025 (Part 65): 2014	0.03 to 0.2 mg/L
		Bromoform	APHA 6232(22 nd Edition 2012)	0.04 to 1 mg/L
		Chloroform	APHA 6232(22 nd Edition 2012)	0.05 to 1 mg/L
		Dibromochloromethane	APHA 6232 (22 nd Edition 2012	0.05 to 1mg/L
		Bromodichloromethane	APHA 6232 (22 nd Edition 2012	0.05 to 1 mg/L
		Poly chlorinated Biphenyl (PCB)	US EPA 8082 (Revision 01, Feb 2007)	0.10 to 100 ug/L
		Polynuclear aromatic Hydrocarbon as PAH	APHA 6440 (22 nd Edition, 2012)	0.1 to 100 ug/L

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		Pesticide Residue		
		2, 4 DDT	USEPA 525.2 Rev2(1995)/ 508 Rev 3.1 (1995)/AOAC 990.06	0.02 to 100 ug/L
		4, 4 DDT	USEPA 525.2 Rev2(1995)/ 508 Rev 3.1 (1995)/AOAC 990.06	0.02 to 100 ug/L
		2, 4 DDD	USEPA 525.2 Rev2(1995)/ 508 Rev 3.1 (1995)/AOAC 990.06	0.02 to 100 ug/L
		4, 4 DDE	USEPA 525.2 Rev2(1995)/ 508 Rev 3.1 (1995)/AOAC 990.06	0.02 to 100 ug/L
		2, 4 DDE	USEPA 525.2 Rev2(1995)/ 508 Rev 3.1 (1995)/AOAC 990.06	0.02 to 100 ug/L
		4,4 DDD	USEPA 525.2 Rev2(1995)/ 508 Rev 3.1 (1995)/AOAC 990.06	0.02 to 100 ug/L
		γ - HCH (Lindane)	USEPA 525.2 Rev2(1995)/ 508 Rev 3.1 (1995)	0.02 to 100 ug/L
		α - HCH	USEPA 525.2 Rev2(1995)/ 508 Rev 3.1 (1995)	0.02 to 100ug/L
		β - HCH	USEPA 525.2 Rev2(1995)/ 508 Rev 3.1 (1995)	0.01to 100ug/L
		δ - HCH	USEPA 525.2 Rev2(1995)/ 508 Rev 3.1 (1995)	0.02 to 100ug/L
		Endosulfan	USEPA 525.2 Rev2(1995)/ 508 Rev 3.1 (1995)/AOAC 990.06	0.02 to 100 ug/L
		Monocrotophos	USEPA 525.2 Rev2(1995)/ 8141A Rev1 (Sept 1994)	0.05 to 100 ug/L
		Ethion	USEPA 525.2 Rev2(1995)	0.02to 100 ug/L

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		Chloropyrifos	USEPA 525.2 Rev2(1995) / 8141A Rev1 (Sept 1994)	0.02to 100 ug/L
		Phorate	USEPA 525.2 Rev2(1995) / 8141A Rev1 (Sept 1994)	0.02to 100 ug/L
		2, 4-D	USEPA 515.3 Rev1.0 (July1996)	20 to 100 ug/L
		Butachlor	USEPA 525.2 Rev2(1995) / 8141A Rev1 (Sept 1994)	20 to 100 ug/L
		Isoproturon	USEPA 532 Rev 1.0(June 2000)	0.02 to 100 ug/L
		Alachlor	USEPA 525.2 USEPA 525.2 Rev2 / 507 Rev 2.1(1995)	0.3 to 100ug/L
		Atrazine	USEPA 525.2 USEPA 525.2 Rev2 (1995)	0.4 to 100ug/L
		Methyl parathion	USEPA 525.2 USEPA 525.2 Rev2 (1995)	0.05 to 100 ug/L
		Malathion	USEPA 525.2 USEPA 525.2 Rev2 (1995)	0.05 to 100ug/L
		Aldrin/Dieldrin	USEPA 525.2 USEPA 525.2 Rev2 (1995)	0.02 to 100ug/L
2.	Waste Water	Chemical Oxygen Demand	IS 3025 (Part 58):2006	1 to 1000 mg/L
V.	SOLID FUELS			
1.	(Coal & Coke)	Proximate Analysis (Air dry Basis)		
		Moisture	IS : 1350 (1984) – Part No. 1 Reaffirmed 2013	0.5 to 20.0 %
		Ash	IS : 1350 (1984) – Part No. 1 Reaffirmed 2013	5.0 to 30.0 %

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		Volatile Matter	IS : 1350 (1984) – Part No. 1 Reaffirmed 2013	5.0to 40.0 %
		Fixed Carbon	IS : 1350 (1984) Part No. 1 Reaffirmed 2013	5.0 to40.0
		Gross Calorific Value	IS : 1350 (1970) – Part No.2 (Reaffirmed 2015) ASTM D 5865-10a	2500 to 8000 Kcal / Kg
		Sulphur	IS : 1350 (1969) – Part No. 3 (Reaffirmed 2010)	0.1to1.0 %
VI.	RESIDUES IN FOODS PRODUCTS			
1.	Food Grains and Pulses (Toor, Moong , Rice, Wheat , Beans, Soya Seeds)	Aldrin	RCAL/MUM/GCMSMS/RE SIDUES-WI/12 (ISSUE No 1 & ISSUE DATE JAN 2017)	0.01 mg/kg to 0.25mg/kg
		Dialdrin	RCAL/MUM/GCMSMS/RE SIDUES-WI/12 (ISSUE No 1 & ISSUE DATE JAN 2017)	0.01 mg/kg to 0.25mg/kg
		Carbaryl	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg
		Chlordane	RCAL/MUM/GCMSMS/RE SIDUES-WI/12 (ISSUE No 1 & ISSUE DATE JAN 2017)	0.01 mg/kg to 0.25mg/kg
		Diazinon	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg
		Dichlorvos	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg

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		Fenitrothion	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg
		Heptachlor	RCAL/MUM/GCMSMS/RE SIDUES-WI/12 (ISSUE No 1 & ISSUE DATE JAN 2017)	0.01 mg/kg to 0.25mg/kg
		HCH (Alpha, Beta , Gamma & Delta)	RCAL/MUM/GCMSMS/RE SIDUES-WI/12 (ISSUE No 1 & ISSUE DATE JAN 2017)	0.01 mg/kg to 0.25mg/kg
		Malathion (Malaoxan)	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg
		Chlorienvinphos	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg
		Pyrethrins	RCAL/MUM/GCMSMS/RE SIDUES-WI/12 (ISSUE No 1 & ISSUE DATE JAN 2017)	0.01 mg/kg to 0.25mg/kg
		Phosphamidon	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg
		Chlorpyrifos	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg
		Ethion	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg
		Monocrotophos	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg

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		Paraquat Dichloride	RCAL/MUM/LCMSMS RESIDUES / -WI/13 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.05 mg/kg to 0.25mg/kg
		Trichlorfon	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.02 mg/kg to 0.25mg/kg
		Thiometon	RCAL/MUM/GCMSMS/RES IDUES-WI/12 (ISSUE No 1 & ISSUE DATE JAN 2017)	0.02 mg/kg to 0.25mg/kg
		Carbendazim	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg
		Benomyl	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg
		Carbofuran and 3- hydroxyl carbofuran	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg
		Deltamethrin	RCAL/MUM/GCMSMS/RES IDUES-WI/12 (ISSUE No 1 & ISSUE DATE JAN 2017)	0.01 mg/kg to 0.25mg/kg
		Edifenphos	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg
		Fenthion (sulfone & Sulfoxide)	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg
		Phenthoate	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg
		Phorate (Sulfone & Sulfoxide)	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg

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		Trifluralin	RCAL/MUM/GCMSMS/RE SIDUES-WI/12 (ISSUE No 1 & ISSUE DATE JAN 2017)	0.02 mg kg/to 0.25mg/kg
		Diclofop p methyl	RCAL/MUM/GCMSMS/RE SIDUES-WI/12 (ISSUE No 1 & ISSUE DATE JAN 2017)	0.02 mg/kg to 0.25mg/kg
		Clodinafop-propayl	RCAL/MUM/GCMSMS/RE SIDUES-WI/12 (ISSUE No 1 & ISSUE DATE JAN 2017)	0.05 mg/kg to 0.25mg/kg
		Triadimefon	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.05 mg/kg to 0.25mg/kg
		Tebuconazole	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.02 mg/kg to 0.25mg/kg
		Pirimipfosmethyl	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.02 mg/kg to 0.25mg/kg
		Fenoxo-prop-p-ethyl	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg
		Bitertanol	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg
		Cypermethrin	RCAL/MUM/GCMSMS/RE SIDUES-WI/12 (ISSUE No 1 & ISSUE DATE JAN 2017)	0.05 mg/kg to 0.25mg/kg
		Oxydemeton methyl	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg
		Cartap hydrochloride	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.05 mg/kg to 0.25mg/kg

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		Methyl Chlorophenoxy acetic Acid (M.C.P.A.)	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.02 mg/kg to 0.25mg/kg
		Oxadiazon	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg
		Quinolphos	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg
		Triazophos	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg
		Ethoxysulfuron	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg
		Oxyfluorfen	RCAL/MUM/GCMSMS/RES IDUES-WI/12 (ISSUE No 1 & ISSUE DATE JAN 2017)	0.01 mg/kg to 0.25mg/kg
		Iprodione	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg
		Carbosulfan	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg
		Imidacloprid	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg
		Butachlor	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg
		Pendimethalin	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg

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		Pretilachlor	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg
		Cyhalofop-butyl	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg
		Thiamethoxam	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg
		Fenobucarb	RCAL/MUM/GCMSMS/RES IDUES-WI/12 (ISSUE No 1 & ISSUE DATE JAN 2017)	0.01 mg/kg to 0.25mg/kg
		Anilophos	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg
		Isoprothiolane	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg
		Ethofenprox	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg
		Benfuracarb	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg
		Flufenacet	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg
		Buprofezin	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg
		Oxadiargyl	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg

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		Pyrazosulfuron ethyl	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg
		Clomazone	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg
		Thiochlorprid	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg
		Carpropamid	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.05 mg/kg to 0.25mg/kg
		Tridemoiph	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.05 mg/kg to 0.25mg/kg
		Propiconazole	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg
		Sulfosufuron	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg
		Chlorimuron ethyl	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.01 mg/kg to 0.25mg/kg
		Meta sulfuron methyl	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.05 mg/kg to 0.25mg/kg
		Methabenzahiazuron	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.05 mg/kg to 0.25mg/kg
		Triallate	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.02 mg/kg to 0.25mg/kg

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		Isoproturon	RCAL/MUM/LCMSMS/RES IDUES-WI/23 (ISSUE No 1 & ISSUE DATE NOV 2016)	0.05 mg/kg to 0.25mg/kg
2.	Fruit and Vegetable: (Apple, Grapes, Pear, Kiwi, Okra, Green Capsicum, Chilli Fruits Puree)	Aldrin	RCAL/MUM/GCMSMS/RE SIDUES-WI/09 (ISSUE No1 & DATE JAN 2017)	0.01 mg/kg to 0.4mg/kg
		Dialdrin	RCAL/MUM/GCMSMS/RE SIDUES-WI/09 (ISSUE No1 & DATE JAN 2017)	0.01 mg/kg to 0.4mg/kg
		Carbaryl	RCAL/MUM/LCMSMS/RES IDUES-WI/22 (ISSUE No1 & DATE NOV 2016)	0.01 mg/kg to 0.4mg/kg
		Chlordane	RCAL/MUM/GCMSMS/RE SIDUES-WI/09 (ISSUE No1 & DATE JAN 2017)	0.01 mg/kg to 0.4mg/kg
		DDT (op,pp)	RCAL/MUM/GCMSMS/RE SIDUES-WI/09 (ISSUE No1 & DATE JAN 2017)	0.01 mg/kg to 0.4mg/kg
		DDD (op,pp)	RCAL/MUM/GCMSMS/RE SIDUES-WI/09 (ISSUE No1 & DATE JAN 2017)	0.01 mg/kg to 0.4mg/kg
		DDE (op,pp)	RCAL/MUM/GCMSMS/RE SIDUES-WI/09 (ISSUE No1 & DATE JAN 2017)	0.01 mg/kg to 0.4mg/kg
		Diazinon	RCAL/MUM/LCMSMS/RES IDUES-WI/22 (ISSUE No1 & DATE NOV 2016)	0.01 mg/kg to 0.4mg/kg
		Dichlorvos	RCAL/MUM/LCMSMS/RES IDUES-WI/22 (ISSUE No1 & DATE NOV 2016)	0.02 mg/kg to 0.4mg/kg
		Dicofol	RCAL/MUM/GCMSMS/RE SIDUES-WI/09 (ISSUE No1 & DATE JAN 2017)	0.05 mg/kg to 0.4mg/kg

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		Dimethoate	RCAL/MUM/LCMSMS/RES IDUES-WI/22 (ISSUE No1 & DATE NOV 2016)	0.01 mg/kg to 0.4mg/kg
		HCH (Alpha, Gamma,& Delta)	RCAL/MUM/GCMSMS/RE SIDUES-WI/09(ISSUE No1 & DATE JAN 2017)	0.01 mg/kg to 0.4mg/kg
		Fenitrothion	RCAL/MUM/LCMSMS/RES IDUES-WI/22 (ISSUE No1 & DATE NOV 2016)	0.05 mg/kg to 0.4mg/kg
		Heptachlor	RCAL/MUM/GCMSMS/RE SIDUES-WI/09(ISSUE No1 & DATE JAN 2017)	0.05 mg/kg to 0.4mg/kg
		Endosulfan Sulphate	RCAL/MUM/GCMSMS/RE SIDUES-WI/09(ISSUE No1 & DATE JAN 2017)	0.05 mg/kg to 0.4mg/kg
		Malathion	RCAL/MUM/LCMSMS/RES IDUES-WI/22 (ISSUE No1 & DATE NOV 2016)	0.01 mg/kg to 0.4mg/kg
		Ethyl Parathion	RCAL/MUM/GCMSMS/RE SIDUES-WI/09(ISSUE No1 & DATE JAN 2017)	0.05 mg/kg to 0.4mg/kg
		Methyl Parathion	RCAL/MUM/GCMSMS/RE SIDUES-WI/09(ISSUE No1 & DATE JAN 2017)	0.05 mg/kg to 0.4mg/kg
		Phosphamidon	RCAL/MUM/LCMSMS/RES IDUES-WI/22 (ISSUE No1 & DATE NOV 2016)	0.01 mg/kg to 0.4mg/kg
		Pyrethrins	RCAL/MUM/GCMSMS/RE SIDUES-WI/09(ISSUE No1 & DATE JAN 2017)	0.05 mg/kg to 0.4mg/kg
		Chlorfevinphos	RCAL/MUM/LCMSMS/RES IDUES-WI/22(ISSUE No1 & DATE NOV 2016)	0.05 mg/kg to 0.4mg/kg

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		Chlorobenzilate	RCAL/MUM/GCMSMS/RESIDUES-WI/09(ISSUE No1 & DATE JAN 2017)	0.01 mg/kg to 0.4mg/kg
		Chlorpyrifos	RCAL/MUM/LCMSMS/RESIDUES-WI/22(ISSUE No1 & DATE NOV 2016)	0.05 mg/kg to 0.4mg/kg
		2,4 D	RCAL/MUM/LCMSMS/RESIDUES-WI/14(ISSUE No1 & DATE NOV 2016)	0.01 mg/kg to 0.4mg/kg
		Ethion	RCAL/MUM/LCMSMS/RESIDUES-WI/22(ISSUE No1 & DATE NOV 2016)	0.01 mg/kg to 0.4mg/kg
		Formothion	RCAL/MUM/LCMSMS/RESIDUES-WI/22(ISSUE No1 & DATE NOV 2016)	0.01 mg/kg to 0.4mg/kg
		Monocrotophos	RCAL/MUM/LCMSMS/RESIDUES-WI/22(ISSUE No1 & DATE NOV 2016)	0.01 mg/kg to 0.4mg/kg
		Paraquat Dichloride	RCAL/MUM/LCMSMS/RESIDUES-WI/14(ISSUE No1 & DATE NOV 2016)	0.01 mg/kg to 0.4mg/kg
		Phosalone	RCAL/MUM/LCMSMS/RESIDUES-WI/22(ISSUE No1 & DATE NOV 2016)	0.01 mg/kg to 0.4mg/kg
		Trichlorfon	RCAL/MUM/LCMSMS/RESIDUES-WI/22(ISSUE No1 & DATE NOV 2016)	0.01 mg/kg to 0.4mg/kg
		Thiometon	RCAL/MUM/GCMSMS/RESIDUES-WI/09(ISSUE No1 & DATE JAN 2017)	0.01 mg/kg to 0.4mg/kg
		Carbendazim	RCAL/MUM/LCMSMS/RESIDUES-WI/22(ISSUE No1 & DATE NOV 2016)	0.01 mg/kg to 0.4mg/kg

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		Benomyl as carbendazin	RCAL/MUM/LCMSMS/RES IDUES-WI/22(ISSUE No1 &DATE NOV 2016)	0.01 mg/kg to 0.4mg/kg
		Carbofuran and 3- hydroxyl carbofuran	RCAL/MUM/LCMSMS/RES IDUES-WI/22(ISSUE No1 &DATE NOV 2016)	0.01 mg/kg to 0.4mg/kg
		Fenthion (sulfone & Sulfoxide)	RCAL/MUM/LCMSMS/RES IDUES-WI/22(ISSUE No1 &DATE NOV 2016)	0.01 mg/kg to 0.4mg/kg
		Cypermethrin	RCAL/MUM/GCMSMS/RE SIDUES-WI/09(ISSUE No1 &DATE JAN 2017)	0.01 mg/kg to 0.4mg/kg
		Phorate (Sulfon and Sulfoxide)	RCAL/MUM/LCMSMS/RES IDUES-WI/22(ISSUE No1 &DATE NOV 2016)	0.01 mg/kg to 0.4mg/kg
		Chlormequat Chloride	RCAL/MUM/LCMSMS/RES IDUES-WI/14(ISSUE No1 &DATE NOV 2016)	0.01 mg/kg to 0.4mg/kg
		Diodine	RCAL/MUM/GCMSMS/RE SIDUES-WI/09(ISSUE No1 &DATE JAN 2017)	0.01 mg/kg to 0.4mg/kg
		Fenvelarate	RCAL/MUM/GCMSMS/RE SIDUES-WI/09(ISSUE No1 &DATE JAN 2017)	0.01 mg/kg to 0.4mg/kg
		Diuron	RCAL/MUM/GCMSMS/RE SIDUES-WI/09(ISSUE No1 &DATE JAN 2017)	0.01 mg/kg to 0.4mg/kg
		Ethephon	RCAL/MUM/LCMSMS/RES IDUES-WI/14(ISSUE No1 &DATE NOV 2016)	0.01 mg/kg to 0.4mg/kg
		Thiophenate methyl	RCAL/MUM/LCMSMS/RES IDUES-WI/22 ISSUE No1 &DATE NOV 2016	0.01 mg/kg to 0.4mg/kg

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		Fenarimol	RCAL/MUM/LCMSMS/RES IDUES-WI/22 ISSUE No1 &DATE NOV 2016	0.01 mg/kg to 0.4mg/kg
		Hexaconazole	RCAL/MUM/LCMSMS/RES IDUES-WI/22 ISSUE No1 &DATE NOV 2016	0.01 mg/kg to 0.4mg/kg
		Iprodione	RCAL/MUM/GCMSMS/RE SIDUES-WI/09(ISSUE No1 &DATE JAN 2017)	0.01 mg/kg to 0.4mg/kg
		Tridemorph	RCAL/MUM/LCMSMS/RES IDUES-WI/22 ISSUE No1 &DATE NOV 2016	0.01 mg/kg to 0.4mg/kg
		Permethrin	RCAL/MUM/GCMSMS/RE SIDUES-WI/09(ISSUE No1 &DATE JAN 2017)	0.01 mg/kg to 0.4mg/kg
		Penconazole	RCAL/MUM/LCMSMS/RES IDUES-WI/22 ISSUE No1 &DATE NOV 2016	0.01 mg/kg to 0.4mg/kg
		Myclobutanil	RCAL/MUM/LCMSMS/RES IDUES-WI/22 ISSUE No1 &DATE NOV 2016	0.01 mg/kg to 0.4mg/kg
		Chlorfenopry	RCAL/MUM/GCMSMS/RE SIDUES-WI/09(ISSUE No1 &DATE JAN 2017)	0.01 mg/kg to 0.4mg/kg
		Indoxcarb	RCAL/MUM/LCMSMS/RES IDUES-WI/22 ISSUE No1 &DATE NOV 2016	0.01 mg/kg to 0.4mg/kg
		Dimethomorph	RCAL/MUM/LCMSMS/RES IDUES-WI/22 ISSUE No1 &DATE NOV 2016	0.02 mg/kg to 0.4mg/kg
		Captafol	RCAL/MUM/GCMSMS/RE SIDUES-WI/09(ISSUE No1 &DATE JAN 2017)	0.05 mg/kg to 0.4mg/kg

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		Chlorothalonil	RCAL/MUM/GCMSMS/RE SIDUES-WI/09(ISSUE No1 &DATE JAN 2017)	0.01 mg/kg to 0.4mg/kg
		Malic Hydrazide	RCAL/MUM/LCMSMS/RES IDUES-WI/22 ISSUE No1 &DATE NOV 2016	0.05 mg/kg to 0.4mg/kg
		Spinosad	RCAL/MUM/LCMSMS/RES IDUES-WI/22 ISSUE No1 &DATE NOV 2016	0.02 mg/kg to 0.4mg/kg
		Dithianon	RCAL/MUM/LCMSMS/RES IDUES-WI/22 ISSUE No1 &DATE NOV 2016	0.05 mg/kg to 0.4mg/kg
		Cymoxanil	RCAL/MUM/LCMSMS/RES IDUES-WI/22 ISSUE No1 &DATE NOV 2016	0.02 mg/kg to 0.4mg/kg
		Triadimefon	RCAL/MUM/LCMSMS/RES IDUES-WI/22 ISSUE No1 &DATE NOV 2016	0.01 mg/kg to 0.4mg/kg
		Difenoconazole	RCAL/MUM/LCMSMS/RES IDUES-WI/22 ISSUE No1 &DATE NOV 2016	0.01 mg/kg to 0.4mg/kg
		Metiram	RCAL/MUM/GCMSMS/RE SIDUES-WI/09(ISSUE No1 &DATE JAN 2017)	0.05 mg/kg to 0.4mg/kg
		Lufenuron	RCAL/MUM/LCMSMS/RES IDUES-WI/22 ISSUE No1 &DATE NOV 2016	0.02 mg/kg to 0.4mg/kg
		Novalurom	RCAL/MUM/LCMSMS/RES IDUES-WI/22 ISSUE No1 &DATE NOV 2016	0.05 mg/kg to 0.4mg/kg
		Aldicarb	RCAL/MUM/GCMSMS/RE SIDUES-WI/09(ISSUE No1 &DATE JAN 2017)	0.01 mg/kg to 0.4mg/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
		Captan	RCAL/MUM/GCMSMS/RESIDUES-WI/09(ISSUE No1 & DATE JAN 2017)	0.01 mg/kg to 0.4mg/kg
		Anilofos	RCAL/MUM/LCMSMS/RESIDUES-WI/22 ISSUE No1 & DATE NOV 2016	0.05 mg/kg to 0.4mg/kg
		Dichlorvos (DDVP)	RCAL/MUM/LCMSMS/RESIDUES-WI/22 ISSUE No1 & DATE NOV 2016	0.01 mg/kg to 0.4mg/kg
3.	Sugar & Confectionary (White Sugar , Raw Sugar, Organic Sugar)	Atrazine	RCAL/MUM/LCMSMS/RESIDUES-WI/20 ISSUE No1 & DATE NOV 2016	0.01 mg/kg to 0.3mg/kg
		Simazine	RCAL/MUM/LCMSMS/RESIDUES-WI/20 ISSUE No1 & DATE NOV 2016	0.01 mg/kg to 0.3mg/kg
		Carbofuran and 3-hydroxy carbofuron	RCAL/MUM/LCMSMS/RESIDUES-WI/20 ISSUE No1 & DATE NOV 2016	0.01 mg/kg to 0.3mg/kg
		Phorate (Sulfone & Sulfoxide)	RCAL/MUM/LCMSMS/RESIDUES-WI/20 ISSUE No1 & DATE NOV 2016	0.02 mg/kg to 0.3mg/kg
		Monocrotophos	RCAL/MUM/LCMSMS/RESIDUES-WI/20 ISSUE No1 & DATE NOV 2016	0.02 mg/kg to 0.3mg/kg
		Carbendazim	RCAL/MUM/LCMSMS/RESIDUES-WI/20 ISSUE No1 & DATE NOV 2016	0.02 mg/kg to 0.3mg/kg
		2 , 4 D	RCAL/MUM/LCMSMS/RESIDUES-WI/20 ISSUE No1 & DATE NOV 2016	0.02 mg/kg to 0.3mg/kg
		Fenitrothion	RCAL/MUM/LCMSMS/RESIDUES-WI/20 ISSUE No1 & DATE NOV 2016	0.02 mg/kg to 0.3mg/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
		Carbaryl	RCAL/MUM/LCMSMS/RES IDUES-WI/20 ISSUE No1 &DATE NOV 2016	0.02 mg/kg to 0.3mg/kg
		Malathion	RCAL/MUM/LCMSMS/RES IDUES-WI/20 ISSUE No1 &DATE NOV 2016	0.02 mg/kg to 0.3mg/kg
		Triazophos	RCAL/MUM/LCMSMS/RES IDUES-WI/20 ISSUE No1 &DATE NOV 2016	0.02 mg/kg to 0.3mg/kg
		Ediphenphos	RCAL/MUM/LCMSMS/RES IDUES-WI/20 ISSUE No1 &DATE NOV 2016	0.02 mg/kg to 0.3mg/kg
		Fenthion (Sulfone & Sulfoxide)	RCAL/MUM/LCMSMS/RES IDUES-WI/20 ISSUE No1 &DATE NOV 2016	0.02 mg/kg to 0.3mg/kg
		Chlofevinphos	RCAL/MUM/LCMSMS/RES IDUES-WI/20 ISSUE No1 &DATE NOV 2016	0.02 mg/kg to 0.3mg/kg
		Primphos Methyl	RCAL/MUM/LCMSMS/RES IDUES-WI/20 ISSUE No1 &DATE NOV 2016	0.02 mg/kg to 0.3mg/kg
		Buprofezin	RCAL/MUM/LCMSMS/RES IDUES-WI/20 ISSUE No1 &DATE NOV 2016	0.02 mg/kg to 0.3mg/kg
		Ethion	RCAL/MUM/LCMSMS/RES IDUES-WI/20 ISSUE No1 &DATE NOV 2016	0.02 mg/kg to 0.3mg/kg
		Chlorpyrifos	RCAL/MUM/LCMSMS/RES IDUES-WI/20 ISSUE No1 &DATE NOV 2016	0.02 mg/kg to 0.3mg/kg
		Benomyl as carbendazim	RCAL/MUM/LCMSMS/RES IDUES-WI/20 ISSUE No1 &DATE NOV 2016	0.02 mg/kg to 0.3mg/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
4.	Spices (Chili, Coriander and Turmeric, Clove, Black Peeper)	Carbaryl	RCAL/MUM/LCMSMS/RES IDUES-WI/26 ISSUE No1 &DATE DEC 2016	0.02 mg/kg to 0.3mg/kg
		Dimethoate	RCAL/MUM/LCMSMS/RES IDUES-WI/26 ISSUE No1 &DATE DEC 2016	0.02 mg/kg to 0.3mg/kg
		Monocrotophos	RCAL/MUM/LCMSMS/RES IDUES-WI/26 ISSUE No1 &DATE DEC 2016	0.02 mg/kg to 0.3mg/kg
		Quinolpos	RCAL/MUM/LCMSMS/RES IDUES-WI/26 ISSUE No1 &DATE DEC 2016	0.02 mg/kg to 0.3mg/kg
		Triazophos	RCAL/MUM/LCMSMS/RES IDUES-WI/26 ISSUE No1 &DATE DEC 2016	0.02 mg/kg to 0.3mg/kg
		Endosulfan (Alpha, Beeta, and Sulfate)	RCAL/MUM/GCMSMS/RE SIDUES-WI/18(ISSUE No1 &DATE JAN 2017)	0.01 mg/kg to 0.3mg/kg
		Dicofol	RCAL/MUM/GCMSMS/RE SIDUES-WI/18(ISSUE No1 &DATE JAN 2017)	0.01 mg/kg to 0.3mg/kg
5.	Beverage Nonalcoholic (Tea and coffee)	Monocrotophos	RCAL/MUM/LCMSMS/RES IDUES-WI/27 ISSUE No1 &DATE DEC 2016	0.02 mg/kg to 0.3mg/kg
		Ethephon	RCAL/MUM/LCMSMS/RES IDUES-WI/14 (ISSUE No1 &DATE JAN 2017)	0.02 mg/kg to 0.3mg/kg
		Fenazaquin	RCAL/MUM/LCMSMS/RES IDUES-WI/27 ISSUE No1 &DATE DEC 2016	0.02 mg/kg to 0.3mg/kg
		Ethion	RCAL/MUM/LCMSMS/RES IDUES-WI/27 ISSUE No1 &DATE DEC 2016	0.02 mg/kg to 0.3mg/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
		Quinolphos	RCAL/MUM/LCMSMS/RES IDUES-WI/27 ISSUE No1 &DATE DEC 2016	0.01 mg/kg to 0.3mg/kg
		Propargite	RCAL/MUM/LCMSMS/RES IDUES-WI/27 ISSUE No1 &DATE DEC 2016	0.02 mg/kg to 0.3mg/kg
		Glyphosphate	RCAL/MUM/LCMSMS/RES IDUES-WI/15 ISSUE No1 &DATE OCT 2016	0.02 mg/kg to 0.3mg/kg
		Dicofol	RCAL/MUM/GCMSMS/RE SIDUES-WI/19(ISSUE No1 &DATE JAN 2017)	0.02 mg/kg/to 0.3mg/kg
		Glufosinate ammonium	RCAL/MUM/LCMSMS/RES IDUES-WI/15 ISSUE No1 &DATE OCT 2016	0.02 mg/kg to 0.3mg/kg
6.	Dairy and Infant Product : Milk and Milk Powder, Infant Food, Dairy Chocolate	Aldrin	RCAL/MUM/GCMSMS/RE SIDUES-WI/08(ISSUE No1 &DATE JAN 2017)	0.01 mg/kg to 0.3mg/kg
		Dialdrin	RCAL/MUM/GCMSMS/RE SIDUES-WI/08(ISSUE No1 &DATE JAN 2017)	0.01 mg/kg to 0.3mg/kg
		Chlordane	RCAL/MUM/GCMSMS/RE SIDUES-WI/08(ISSUE No1 &DATE JAN 2017)	0.01 mg/kg to 0.3mg/kg
		DDT (op,pp)	RCAL/MUM/GCMSMS/RE SIDUES-WI/08(ISSUE No1 &DATE JAN 2017)	0.01 mg/kg to 0.3mg/kg
		DDD (op,pp)	RCAL/MUM/GCMSMS/RE SIDUES-WI/08(ISSUE No1 &DATE JAN 2017)	0.01 mg/kg to 0.3mg/kg
		DDE (op,pp)	RCAL/MUM/GCMSMS/RE SIDUES-WI/08(ISSUE No1 &DATE JAN 2017)	0.01 mg/kg to 0.3mg/kg

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		Heptachlor	RCAL/MUM/GCMSMS/RESIDUES-WI/08(ISSUE No1 &DATE JAN 2017)	0.01 mg/kg to 0.3mg/kg
		Fenitrothion	RCAL/MUM/LCMSMS/RESIDUES-WI/21 ISSUE No1 &DATE NOV 2016	0.01 mg/kg to 0.3mg/kg
		HCH (Alpha, Beeta, Gamma & Delta)	RCAL/MUM/GCMSMS/RESIDUES-WI/08(ISSUE No1 &DATE JAN 2017)	0.01 mg/kg to 0.3mg/kg
		Chlorienvinphos	RCAL/MUM/LCMSMS/RESIDUES-WI/21 ISSUE No1 &DATE NOV 2016	0.01 mg/kg to 0.3mg/kg
		Chlorpyrifos	RCAL/MUM/LCMSMS/RESIDUES-WI/21 ISSUE No1 &DATE NOV 2016	0.01 mg/kg to 0.3mg/kg
		2,4 D	RCAL/MUM/LCMSMS/RESIDUES-WI/13 (ISSUE No1 &DATE NOV 2016)	0.01 mg/kg to 0.3mg/kg
		Ethion	RCAL/MUM/LCMSMS/RESIDUES-WI/21 ISSUE No1 &DATE NOV 2016	0.01 mg/kg to 0.3mg/kg
		Monocrotophos	RCAL/MUM/LCMSMS/RESIDUES-WI/21 ISSUE No1 &DATE NOV 2016	0.01 mg/kg to 0.3mg/kg
		Paraquat dichloride	RCAL/MUM/LCMSMS/RESIDUES-WI/13(ISSUE No1 &DATE NOV 2016)	0.02 mg/kg to 0.3mg/kg
		Trichlorfon	RCAL/MUM/LCMSMS/RESIDUES-WI/21 ISSUE No1 &DATE NOV 2016	0.05 mg/kg to 0.3mg/kg
		Carbendazim	RCAL/MUM/LCMSMS/RESIDUES-WI/21 ISSUE No1 &DATE NOV 2016	0.01 mg/kg/to 0.3mg/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
		Benomyl as carbendazim	RCAL/MUM/LCMSMS/RES IDUES-WI/21 ISSUE No1 &DATE NOV 2016	0.01 mg/kg to 0.3mg/kg
		Carbofuran & 3-hydroxyl carbofuran	RCAL/MUM/LCMSMS/RES IDUES-WI/21 ISSUE No1 &DATE NOV 2016	0.01 mg/kg to 0.3mg/kg
		Cypermethrin	RCAL/MUM/GCMSMS/RE SIDUES-WI/08	0.01 mg/kg to 0.3mg/kg
		Edifenphos	RCAL/MUM/LCMSMS/RES IDUES-WI/21 ISSUE No1 &DATE NOV 2016	0.01 mg/kg to 0.3mg/kg
		Fenthion	RCAL/MUM/LCMSMS/RES IDUES-WI/21 ISSUE No1 &DATE NOV 2016	0.01 mg/kg to 0.3mg/kg
		Fenthion Sulfoxide	RCAL/MUM/LCMSMS/RES IDUES-WI/21 ISSUE No1 &DATE NOV 2016	0.01 mg/kg to 0.3mg/kg
		Fenthion Sulfone	RCAL/MUM/LCMSMS/RES IDUES-WI/21 ISSUE No1 &DATE NOV 2016	0.01 mg/kg to 0.3mg/kg
		Fenvalerate	RCAL/MUM/GCMSMS/RE SIDUES-WI/08	0.05 mg/kg to 0.3mg/kg
		Phenthoate	RCAL/MUM/LCMSMS/RES IDUES-WI/21 ISSUE No1 &DATE NOV 2016	0.01 mg/kg to 0.3mg/kg
		Phorate (Sulfone & Sulfoxide)	RCAL/MUM/LCMSMS/RES IDUES-WI/21 ISSUE No1 &DATE NOV 2016	0.01 mg/kg to 0.3mg/kg
		Primiphos ethyl	RCAL/MUM/LCMSMS/RES IDUES-WI/21 ISSUE No1 &DATE NOV 2016	0.02 mg/kg to 0.3mg/kg
7.	Edible Oil (Mustard, Coconut, Olive)	Triazophos	RCAL/MUM/LCMSMS/RES IDUES-WI/25(ISSUE No1 &DATE JAN 2017)	0.02 mg/kg to 0.3mg/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
		Phorate (Sulfone & Sulfoxide)	RCAL/MUM/LCMSMS/RES IDUES-WI/25(ISSUE No1 & DATE JAN 2017)	0.02 mg/kg to 0.3mg/kg
		Phenthoate	RCAL/MUM/LCMSMS/RES IDUES-WI/25(ISSUE No1 & DATE JAN 2017)	0.02 mg/kg to 0.3mg/kg
		Trichlorfon	RCAL/MUM/LCMSMS/RES IDUES-WI/25(ISSUE No1 & DATE JAN 2017)	0.02 mg/kg to 0.3mg/kg
		Profenofos	RCAL/MUM/LCMSMS/RES IDUES-WI/25(ISSUE No1 & DATE JAN 2017)	0.02 mg/kg to 0.3mg/kg
		Fenvalerate (Fat Soluble residue)	RCAL/MUM/GCMSMS/RE SIDUES-WI/16(ISSUE No1 & DATE JAN 2017)	0.02 mg/kg to 0.3mg/kg
		Fenpropathrin	RCAL/MUM/GCMSMS/RE SIDUES-WI/16(ISSUE No1 & DATE JAN 2017)	0.02 mg/kg to 0.3mg/kg
		Imidacloprid	RCAL/MUM/LCMSMS/RES IDUES-WI/25(ISSUE No1 & DATE JAN 2017)	0.02 mg/kg to 0.3mg/kg
		Pendimethalin	RCAL/MUM/LCMSMS/RES IDUES-WI/25(ISSUE No1 & DATE JAN 2017)	0.02 mg/kg to 0.3mg/kg
		Fluvalinate	RCAL/MUM/GCMSMS/RE SIDUES-WI/16(ISSUE No1 & DATE JAN 2017)	0.02 mg/kg to 0.3mg/kg
		Paraquat Dichloride	RCAL/MUM/LCMSMS/RES IDUES-WI/25(ISSUE No1 & DATE JAN 2017)	0.02 mg/kg to 0.3mg/kg
		Chlorpyrifos	RCAL/MUM/LCMSMS/RES IDUES-WI/25(ISSUE No1 & DATE JAN 2017)	0.02 mg/kg to 0.3mg/kg

Battal Singh
Convenor

N. Venkateswaran
Program Director

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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
		Endosulfan (Alpha, Beeta, And sulphate)	RCAL/MUM/GCMSMS/RE SIDUES-WI/16(ISSUE No1 &DATE JAN 2017)	0.02 mg/kg to 0.3mg/kg
		Monocrotophos	RCAL/MUM/LCMSMS/RES IDUES-WI/25(ISSUE No1 &DATE JAN 2017)	0.02 mg/kg to 0.3mg/kg
		Thiodicarb	RCAL/MUM/LCMSMS/RES IDUES-WI/25(ISSUE No1 &DATE JAN 2017)	0.02 mg/kg to 0.3mg/kg
		Indoxacarb	RCAL/MUM/LCMSMS/RES IDUES-WI/25(ISSUE No1 &DATE JAN 2017)	0.02 mg/kg to 0.3mg/kg
		Acetamiprid	RCAL/MUM/LCMSMS/RES IDUES-WI/25(ISSUE No1 &DATE JAN 2017)	0.02 mg/kg to 0.3mg/kg
		Novaluron	RCAL/MUM/LCMSMS/RES IDUES-WI/25(ISSUE No1 &DATE JAN 2017)	0.02 mg/kg to 0.3mg/kg
		Thioichlorprid	RCAL/MUM/LCMSMS/RES IDUES-WI/25(ISSUE No1 &DATE JAN 2017)	0.02 mg/kg to 0.3mg/kg
		Metolachlot	RCAL/MUM/LCMSMS/RES IDUES-WI/25(ISSUE No1 &DATE JAN 2017)	0.02 mg/kg to 0.3mg/kg
		Oxyfluorfen	RCAL/MUM/GCMSMS/RE SIDUES-WI/16(ISSUE No1 &DATE JAN 2017)	0.02 mg/kg to 0.3mg/kg
		Metruibuzin	RCAL/MUM/LCMSMS/RES IDUES-WI/25(ISSUE No1 &DATE JAN 2017)	0.02 mg/kgto 0.3mg/kg
		Imazethapyr	RCAL/MUM/LCMSMS/RES IDUES-WI/25(ISSUE No1 &DATE JAN 2017)	0.02 mg/kg to 0.3mg/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
		Spinosad	RCAL/MUM/LCMSMS/RES IDUES-WI/25(ISSUE No1 &DATE JAN 2017)	0.02 mg/kg to 0.3mg/kg
		Clomazone	RCAL/MUM/LCMSMS/RES IDUES-WI/25(ISSUE No1 &DATE JAN 2017)	0.02 mg/kg to 0.3mg/kg
8.	Animal Food & Feed Animal Feed (Soya Bean & Fish Meal)	Aldrin	RCAL/MUM/GCMSMS/RE SIDUES-WI/12(ISSUE No1 &DATE JAN 2017)	0.02 mg/kg to 0.2mg/kg
		Dialdrin	RCAL/MUM/GCMSMS/RE SIDUES-WI/12(ISSUE No1 &DATE JAN 2017)	0.02 mg/kg to 0.2mg/kg
		Chlordane	RCAL/MUM/GCMSMS/RE SIDUES-WI/12(ISSUE No1 &DATE JAN 2017)	0.02 mg/kg to 0.2mg/kg
		DDT (op,pp)	RCAL/MUM/GCMSMS/RE SIDUES-WI/12(ISSUE No1 &DATE JAN 2017)	0.02 mg/kg to 0.2mg/kg
		DDD (op,pp)	RCAL/MUM/GCMSMS/RE SIDUES-WI/12(ISSUE No1 &DATE JAN 2017)	0.02 mg/kg to 0.2mg/kg
		DDE (op,pp)	RCAL/MUM/GCMSMS/RE SIDUES-WI/12(ISSUE No1 &DATE JAN 2017)	0.02 mg/kg to 0.2mg/kg
		HCH (Alpha, Beeta, Gamma & Delta)	RCAL/MUM/GCMSMS/RE SIDUES-WI/12(ISSUE No1 &DATE JAN 2017)	0.02 mg/kg to 0.2mg/kg
		Carbaryl	RCAL/MUM/LCMSMS/RES IDUES-WI/23(ISSUE No1 &DATE NOV 2016)	0.02 mg/kg to 0.3mg/kg
9.	Dairy and Infant Product : Milk and Milk Powder, Infant Food, Dairy	Aflatoxin M1	RCAL/MUM/LCMSMS/RES IDUES-WI/32 ISSUE No1 &DATE NOV 2017	0.03 ug/kg to 1mg/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
	Chocolate	Melamine	RCAL/MUM/LCMSMS/RES IDUES-WI/28 ISSUE No1 & DATE FEB2017)	0.02mg/kg to 10mg/kg
10.	Food grains & Pulses: Toor, Moong, Rice, Wheat, Beans, Soya Seed	Ochratoxin	RCAL/MUM/LCMSMS/RES IDUES-WI/29 (ISSUE No1 & DATE MAY 2017)	1 ug/kg to 1 mg/kg
		Fumonisin B1	RCAL/MUM/LCMSMS/RES IDUES-WI/29 (ISSUE No1 & DATE MAY 2017)	10 ug/kg to 1 mg/kg
		Fumonisin B2	RCAL/MUM/LCMSMS/RES IDUES-WI/29 (ISSUE No1 & DATE MAY 2017)	10 ug/kg to 10 mg/kg
		Zearlenone (ZON)	RCAL/MUM/LCMSMS/RES IDUES-WI/29 (ISSUE No1 & DATE MAY 2017)	10 ug/kg to 10 mg/kg
		Melamine	RCAL/MUM/LCMSMS/RES IDUES-WI/28 (ISSUE No1 & DATE FEB 2017)	10 ug/kg to 10 mg/kg
11.	Food Grains & Feed	Mallachite Green	RCAL/MUM/LCMSMS/RES IDUES-WI/31 ISSUE No1 & DATE NOV 2016	0.5 ug/kg to 10 mg/kg
		Leuco Malachite Green	RCAL/MUM/LCMSMS/RES IDUES-WI/31 ISSUE No1 & DATE NOV 2016	0.5 ug/kg to 10 mg/kg
12.	Fish Oil	Malachite Green	RCAL/MUM/LCMSMS/RES IDUES-WI/31 (ISSUE No1 & DATE MARCH 017)	0.5 ug/kg to 10 mg/kg
		Leuco Malachite Green	RCAL/MUM/LCMSMS/RES IDUES-WI/31 ISSUE No1 & DATE NOV 2016	0.5 ug/kg to 10 mg/kg
13.	Dairy & Infant Product : Milk & Milk Powder, Infant Food, Dairy	Arsenic as As	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 & DATE NOV 2016	0.01 mg/kg to 10mg/kg

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	Chocolate	Cadmium as Cd	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE NOV 2016	0.01 mg/kg to 10mg/kg
		Copper as Cu	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE NOV 2016	0.01 mg/kg to 10mg/kg
		Lead as Pb	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE NOV 2016	0.01 mg/kg to 10mg/kg
		Manganese as Mn	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE NOV 2016	0.01 mg/kg to 10mg/kg
		Zinc as Zn	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE NOV 2016	0.01 mg/kg to 10mg/kg
		Mercury as Hg	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE NOV 2016	0.01 mg/kg to 10mg/kg
		Methyl Mercury	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE NOV 2016	0.01 mg/kg to 10mg/kg
		Iron as Fe	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE NOV 2016	0.01 mg/kg to 10mg/kg
		Tin as Sn	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE NOV 2016	0.01 mg/kg to 10mg/kg
		Molybdenum as Mn	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE NOV 2016	0.01 mg/kg to 10mg/kg
		Chromium as Cr	RCAL/MUM/ICPMS/RESID UES-WI/06 ISSUE No2 &DATE NOV 2016	0.01 mg/kg to 10mg/kg