

Laboratory	TUV India Private Limited, (Laboratory Division), Survey No. 2, Hissa No. 311 & 312, Village Sus, Tal-Mulshi, Pune, Maharashtra		
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I. FOOD & AGRICULTURAL PRODUCTS				
1.	Animal Feed & Feed Stuffs	Moisture	IS 7874 (Part 1): 1975, AOAC (19 th Edition) 934.01, AOAC 925.04, AOAC (19 th Edition) 930.15, TUV/02/SOP/028 Issue No. 01 Issue Date: 24/03/2014 , GAFTA Method 2:1	1 % to 40 %
		Ash	IS 7874 (Part 1): 1975, AOAC (19 th Edition) 942.05, TUV/02/SOP/025 Issue No. 01 Issue Date: 24/03/2014 GAFTA Method 12	1 % to 30 %
		Acid Insoluble Ash/Sand & Silica	IS 7874 (Part 1): 1975, TUV/02/SOP/025 Issue No. 01 Issue Date: 24/03/2014, GAFTA Method 13	0.01 % to 5 %
		Crude Fat	IS 7874 (Part 1): 1975, AOAC (19 th Edition) 920.39 TUV/02/SOP/005 Issue No. 01 Issue Date: 26/06/2013, TUV/03/SOP/037 Issue No. 02 Issue Date: 25/06/2012,	0.5 % to 70 %
		Crude Protein	IS 7874 (Part 1): 1975, AOAC (19 th Edition) 984.13, TUV/02/SOP/002 Issue No. 01 Issue Date: 23/11/2012, GAFTA Method 4	1 % to 85 %

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	Animal Feed & Feed Stuffs	Crude Fibre	IS 7874 (Part 1): 1975 , TUV/02/SOP/026 Issue No. 01 Issue Date: 24/03/2014 , GAFTA method 10	0 % to 60 %
		Urease Activity	GAFTA Method 27	0.02 mgN to 5mgN/ g/min at 30 °C
		Sugar	AOAC (19 th Edition) 974.06	0.1 % to 80 %
		Acidity	AOAC (19 th Edition) 920.43	0.01 % to 10 %
		Salt	IS 7874 (Part 2): 1975	0.01 % to 5 %
		Poly Chlorinated Biphenyls (PCBs)	TUV/03/SOP/042 Issue No. 02 Issue Date: 30/06/2012 (Based on EPA-3540C & 3630C)	0.025 mg/kg to 10 mg/kg
		2-Chlorobiphenyl		
		2,2,3,3,4,4,5,5,Octachloro biphenyl		
		2,2,3,3,4,4,5,5,6,Nonachloro biphenyl		
		2,2,3,3,4,4,5,5,6,6, Decachloro biphenyl	TUV/03/SOP/042 Issue No. 02 Issue Date: 30/06/2012 (Based on EPA-3540C & 3630C)	0.025 mg/kg to 10 mg/kg
		2,2,3,3,6,6,Hexachloro biphenyl		
		2,2,3,4,5,5,6,Heptachloro biphenyl		

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	Animal Feed & Feed Stuff	2,2,4,4, Tetrachloro biphenyl 2,4,5, trichloro biphenyl 2,3,4,5,6, Pentachloro biphenyl 3,3,dichloro biphenyl	TUV/03/SOP/042 Issue No. 02 Issue Date: 30/06/2012 (Based on EPA-3540C & 3630C)	0.025 mg/kg to 10 mg/kg
2.	Stimulant Foods (Tea, Coffee, Cocoa Powder)	Moisture Ash	IS 11923: 1986, IS 13852: 1994, IS 13853: 1994, IS 13859: 1993, IS 15342: 2003, IS 2791: 1992, IS 3077: 1992, IS 3309: 1992, IS 3381: 1982, IS 3802: 1992, IS 612: 1992, IS 8833: 2003, IS 16030: 2012, IS 16034: 2012, IS 16029: 2013 DGHS 2005: Lab Manual 4/ AOAC (19 th Edition) 920.100, TUV/02/SOP/028 Issue No. 01 Issue Date: 24/03/2014, DGHS 2005: Lab Manual 4	0.1 % to 80 % 0.01 % to 10 %

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	Stimulant Foods (Tea, Coffee, Cocoa Powder)	Acid Insoluble Ash	IS 1164: 1986, IS 11923: 1986, IS 15342: 2003, IS 15344: 2003, IS 3077: 1992, IS 3802: 1992, IS 612: 1992 DGHS 2005: Lab Manual 4/ AOAC (19 th Edition) 920.100, TUV/02/SOP/025 Issue No. 01, Issue Date: 24/03/2014 , DGHS 2005: Lab Manual 4	0.01 % to 5 %
		Crude Fibre	IS 1164: 1986, IS 11923: 1986, IS 16041: 2012 DGHS 2005: Lab Manual 4/ TUV/02/SOP/026 Issue No. 01, Issue Date: 24/03/2014 ,	0.025 mg/kg to 10 mg/kg
		Water Extract /Aqueous extract	IS 3633: 2003, IS 13862: 1998 , IS 15344: 2003,IS 3077: 1992, IS 612: 1992 DGHS 2005: Lab Manual 4	1 % to 80 %
		Water Soluble Ash of Total Ash	IS 3633: 2003, IS 13855: 1993, IS 15344: 2003, IS 3077: 1992, IS 3802: 1992 DGHS 2005: Lab Manual 4 AOAC (19 th Edition) 920.100,	5 % to 85 %
		Water Insoluble Ash	IS 3633: 2003, IS 13855: 1993, IS 13857: 1993 DGHS 2005: Lab Manual 4/ AOAC (19 th Edition) 920.100,	0.1 % to 15 %

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	Stimulant Foods (Tea, Coffee, Cocoa Powder)	Alkalinity of Water Soluble Ash	IS 3633: 2003, IS 13856: 1993, IS 1164: 1986, DGHS 2005: Lab Manual 4/ IS 11923: 1986, IS 15344: 2003, IS 3077: 1992	0.1 % to 10 %
		Solubility in Hot Water	FSSAI rules & regulation 2011, (12 th Edition): 2014, IS 2791: 1992, IS 3309: 1992	to pass the test
		Caffeine	TUV/03/SOP/080 Issue No. 01, Issue Date: 20/10/2014	10 mg/kg to 5 %
		Extraneous Matter/Impurities	TUV/02/SOP/029 Issue No. 01, Issue Date: 20/10/2014	Qualitative (Present/Absent)
		Added colouring matter	DGHS 2005: Lab Manual 8	Qualitative (Present/Absent)
		solubility in cold water	IS 2791: 1992, IS 3309: 1992 FSSAI rules & regulation 2011, (12 th Edition): 2014	Descriptive
		Total Catechins	ISO 14502-2: 2005	0.1 % to 30 %
		Cocoa butter	IS 1164: 1986 DGHS 2005: Lab Manual 4	5 % to 40 %
		Particle size	IS 1164: 1986	Passes the test
		Iron filling	IS 3633: 2003	Passes the test

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	Stimulant Foods (Tea, Coffee, Cocoa Powder)	Pesticides		
		Dicofol	TUV/03/SOP/085 Issue No. 01, Issue Date: 20/10/2014	0.005 mg/kg to 1000 mg/kg
		Ethion		0.005 mg/kg to 1000 mg/kg
		Fenazaquin		0.005 mg/kg to 1000 mg/kg
		Glufosinate - ammonium		0.01 mg/kg to 1000 mg/kg
		Glyphosate		0.01 mg/kg to 1000 mg/kg
		Propargite		0.005 mg/kg to 1000 mg/kg
	Quinalphos		0.005 mg/kg to 1000 mg/kg	
3.	Soft Drinks - Carbonated, Non Carbonated, Fruit Juices	pH	IS 2860 1964/ AOAC (19 th Edition): 981.12	0.1 to 14
		Total Solids	IS 5781: 1993 AOAC (19 th Edition) 950.27 / DGHS 2005: Lab Manual 5/ DGHS 2005: Lab Manual 5/ TUV/02/SOP/028 Issue No. 01 Issue Date: 24/03/2014	1 % to 90 %
		Total Sugar	DGHS 2005: Lab Manual 5 TUV/02/SOP/013 Issue No. 01 Issue Date: 24/03/2014	1 % to 85 %

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	Soft Drinks - Carbonated, Non Carbonated, Fruit Juices	Caffeine	TUV/03/SOP/080 Issue No. 01, Issue Date: 20/10/2014	10 mg/kg to 5 %
		Total Soluble Solids	AOAC (19 th Edition): 932.12 IFU 8	1 % to 90 %
		Acidity	DGHS 2005: Lab Manual 5 AOAC (19 th Edition) 950.15, IS 13844: 2003, DGHS 2005: Lab Manual 5	0.01 % to 10 %
4.	Nut & Nut Products (Peanut, Peanut Product, Cashew, Almond)	Moisture	AOAC (19 th Edition) 925.40 TUV/02/SOP/028 Issue No. 01 Issue Date: 24/03/2014	0.1 % to 25 %
		Ash	AOAC (19 th Edition) 950.49 TUV/02/SOP/025 Issue No. 01, Issue Date: 24/03/2014	0.1 % to 25 %
		Fat	AOAC (19 th Edition) 948.22/ TUV/02/SOP/005 Issue No. 01 Issue Date: 26/06/2013	1 % to 75 %
		Crude Fibre	TUV/02/SOP/026 Issue No. 01, Issue Date:24/03/2014	1 % to 50 %
		Acid Insoluble Ash	TUV/02/SOP/025 Issue No. 01, Issue Date: 24/03/2014	0.01 % to 5 %
		Protein	TUV/02/SOP/002 Issue No. 01, Issue Date: 23/11/2012	1 % to 85 %
		Acidity of extracted fat	IS 548 (Part 1): 1964	0.01 % to 25 %

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	Nut & Nut Products (Peanut, Peanut Product, Cashew, Almond)	Aflatoxins		
		Aflatoxin B1	TUV/03/SOP/016 Issue No. 02, Issue Date: 09/06/2014	0.5 µg/kg to 1000 µg/kg
		Aflatoxin B2		0.5 µg/kg to 1000 µg/kg
		Aflatoxin G1		0.5 µg/kg to 1000 µg/kg
		Aflatoxin G2		0.5 µg/kg to 1000 µg/kg
5.	Fruit & Vegetable Products	Moisture	IS 4624: 1978, IS 4625: 1968, IS 4627: 1968, AOAC (19 th Edition) 920.151, TUV/02/SOP/028 Issue No. 01, Issue Date: 24/03/2014 , AOAC (19 th Edition) 934.06, DGHS 2005: Lab Manual 5/	0.75 % to 95 %
		Brix (Total soluble solids)	IS 4936: 1968 AOAC (19 th Edition) 932.12, IFU 8, By refractometer,	1 % to 99 %
		Total Ash	IS 4624: 1978, IS 3500: 1966 AOAC (19 th Edition) 940.26, TUV/02/SOP/025 Issue No. 01, Issue Date: 24/03/2014, IFU No.9	0.1 % to 15 %
		Acid Insoluble Ash	IS 13846: 2009, IS 4624: 1978, IS 3500: 1966 DGHS 2005: Lab Manual 5/ FSSAI Draft Manual 5 TUV/02/SOP/025 Issue No. 01, Issue Date: 24/03/2014 /	0.01 % to 3 %

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	Fruit & Vegetable Products	Total Solids	IS 14703: 1999, TUV/02/SOP/028 Issue NO. 01, Issue Date: 24/03/2014, IFU No. 61	1 % to 99 %
		Drained weight	IS 2860: 1964 , DGHS 2005: Lab Manual 5	30 % to 90 %
		Hydroxymethyl furfural (HMF)	IS 4941: 2002 & AOAC 980.23, IFU No. 12	(0.1 mg to 100 mg) /100 g
		Added Sugar/ total sugar	IS 3881: 1993 DGHS 2005: Lab Manual 5/ TUV/02/SOP/013 Issue No. 01 Issue Date: 24/03/2014 ,	1 % to 85 %
		Extraneous matter	TUV/02/SOP/029 Issue No. 01, Issue Date: 20/10/2014	Qualitative (Present/Absent)
		Added colouring matter	DGHS 2005: Lab Manual 8	Qualitative (Present/Absent)
		Acidity of extracted fat	IS 548 (Part 1): 1964	0.01 % to 25 %
		Fruits and vegetable content	DGHS 2005: Lab Manual 5/ IS 3500: 1966, IFU No. 60	1 % to 90 %
		Starch	IS 4706 (Part 2): 1978, IFU No. 73	1 % to 95 %
		Sulphur Dioxide	AOAC (19 th Edition) 990.28, IFU No. 7a	10 mg/kg to 1000 mg/kg

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	Fruit & Vegetable Products	Acidity of cut out syrup / Total acidity	IS 13844: 2003, IS 2860: 1964, IS 9789: 1981, IS 4936: 1968, IS 3881: 1993, IS 3880: 1976, IS 3500: 1966 AOAC (19 th Edition) 942.15/ IFU No.3,	0.01 % to 10 %
		Filled quantity of Container	DGHS 2005: Lab Manual 5	70 % to 99 %
		Peroxidase Test	IS 4624: 1978, IS 4625: 1968, IS 4627: 1968	Qualitative (Positive/ Negative)
		Reducing Sugar	DGHS 2005: Lab Manual 5/ TUV/02/SOP/013 Issue No. 01, Issue Date: 24/03/2014	1 % to 85 %
		Relative density	IS 9789: 1981 IFU No. 1	0.5000 to 1.3000
		Ethanol	TUV/03/SOP/091 Issue No. 01, Issue Date: 22/10/2014, IFU No. 2	5 mg/kg to 5000 mg/kg
		DL – Lactic acid	Enzymatic kit method, IFU No. 53	0 to 10 g/kg
		Acetic acid	Enzymatic kit method, IFU No. 66	0 to 10 g/kg
		Formol number	IFU No. 3	1 to 50
		Total carotinoids	IFU No. 59	0.1 mg/kg to 1%

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6.	Milk & Dairy Products and Infant Foods (Infant Milk Food, Infant Formula, Hypoallergic Infant Milk Substitute, Processed Cereal Based Complementary Food, Follow- Up Formula- Complementary Food, Ice Cream, Dahi, Cheese, Paneer, Ghee)	Moisture	IS 4941: 2002, DGHS 2005: Lab Manual 1/ IS 2785: 1979, IS 3507: 1966, IS 3508: 1966, TUV/02/SOP/028 Issue No. 01, Issue Date: 24/03/2014 , Based on AOAC (19 th Edition) 927.05, AOAC (19 th Edition) 920.116, AOAC (19 th Edition) 926.08,	1 % to 90 %
Total Solids		IS 2802: 1964, IS 1479 (Part 2): 1961, DGHS 2005: Lab Manual 1/ IS 11622: 1986, TUV/02/SOP/028 Issue No. 01, Issue Date: 24/03/2014	8 % to 99 %	
Total Ash		IS 14433: 2007 IS 1479 (Part 2): 1961 IS 11962: 2012, IS 1165: 2002, DGHS 2005: Lab Manual 1/ AOAC (19 th Edition) 930.30, AOAC (19 th Edition) 986.25, AOAC (19 th Edition) 945.46, AOAC (19 th Edition) 920.117, AOAC (19 th Edition) 935.42, TUV/02/SOP/025 Issue No. 01, Issue Date: 24/03/2014	0.1 % to 10 %	
Acid Insoluble Ash		IS 14433: 2007, DGHS 2005: Lab Manual 1/ TUV/02/SOP/025 Issue No. 01, Issue Date: 24/03/2014	0.01 % to 3 %	

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	Milk & Dairy Products and Infant Foods (Infant Milk Food, Infant Formula, Hypoallergic Infant Milk Substitute, Processed Cereal Based Complementary Food, Follow- Up Formula- Complementary Food, Ice Cream, Dahi, Cheese, Paneer, Ghee)	Milk Fat	IS 12299: 1998, IS 11721: 2013, IS 3509: 1966, IS 2785: 1979, IS 10484: 1983, IS 2802: 1964, IS 1479 (Part 2): 1961, DGHS 2005: Lab Manual 1/ AOAC (19 th Edition) 986.25, AOAC (19 th Edition) 989.05, TUV/02/SOP/005 Issue No. 01 Issue Date: 26/06/2013	0.1 % to 100 %
		Solid Not Fat	IS 1479 (Part 1): 1960, IS 10083: 1982, AOAC (19 th Edition) 990.21	1 % to 80 %
		Milk Protein	IS 1479 (Part 2): 1961 TUV/02/SOP/002 Issue No. 01, Issue Date: 23/11/2012 , AOAC (19 th Edition) 991.23, AOAC (19 th Edition) 991.22, DGHS 2005: Lab Manual 1/	0.1% to 90 %
		Weight by Volume	DGHS 2005: Lab Manual 1	400 g/L to 1300 g/L
		Overrun	DGHS 2005: Lab Manual 1/	300 % to 700 %
		Adultration (Added Starch, Added Formaldehyde, Added colour, Added Sugar, Added urea, Carbonates)	IS 1479 (Part 1): 1960, DGHS 2005: Lab Manual 1	Quantitative (Present / Absent)

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	Milk & Dairy Products and Infant Foods (Infant Milk Food, Infant Formula, Hypoallergic Infant Milk Substitute, Processed Cereal Based Complementary Food, Follow- Up Formula- Complementary Food, Ice Cream, Dahi, Cheese, Paneer, Ghee)	Urea	IS 1479 (Part 2): 1961, DGHS 2005: Lab Manual 1	20 mg/kg to 1000 mg/kg
		pH	IS 1479 (Part 2): 1961	1 to 10
		Salt	IS 1479 (Part 2): 1961, IS 3507: 1966, DGHS 2005: Lab Manual 1 AOAC (19 th Edition) 935.43, TUV/02/SOP/030 Issue No. 01, Issue Date: 20/10/2014	0.01 % to 10 %
		Sucrose	IS 2802: 1964 (RA 2009) IS 1479 (Part 2): 1961, IS 4079 (Part 2): 1961 DGHS 2005: Lab Manual 1 TUV/02/SOP/013 Issue No. 01, Issue Date: 24/03/2014, AOAC (19 th Edition) 923.09/ AOAC (19 th Edition) 923.35,	1 % to 85 %
		Lactose	IS 1479 (Part 2): 1961, IS 4079: 1967	1 % to 95 %
		Casein	IS 1479 (Part 2): 1961, AOAC (19 th Edition) 927.03	0.1 % to 20 %
		Albumin	IS 1479(Part 2): 1961, AOAC (19 th Edition) 925.24	0.1 % to 50 %
		Aflatoxin M1	TUV/03/SOP/013 Issue No. 02, Issue Date: 22/06/2012	0.5 µg/kg to 10000 µg/kg

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		Extraneous matter/ Impurities	TUV/02/SOP/029 Issue No. 01, Issue Date: 20/10/2014	Qualitative (Present / Absent)
		Solubility	DGHS 2005: Lab Manual 1	90 % to 99.9 %
		Baudouin test	IS 548 (Part 2): 1976, DGHS 2005: Lab Manual 2	Qualitative (Positive/Negative)
		Butyrometer Refractometer at 40 °C	IS 548 (Part 1): 1964	10 to 80
		Refractive Index	IS 548 (Part 1): 1964, AOAC (19 th Edition) 921.08	1.3 to 1.8
		Free fatty acid	IS 548 (Part 1): 1964	0.01 % to 10 %
		Melting point	IS 548 (Part 1): 1964, DGHS 2005: Lab Manual 2	20 °C to 80 °C
		Reichert value	IS 548 (Part 1): 1964	10 to 50
		Titration (0.1N NaOH / 10gm solids not Fat)	IS 11766: 1986 (RA 2008) IS 1479 (Part 1): 1960 (RA 2009) IS 1166: 1986 Annexure D	0.01 % to 5 %
	Chloramphenicol	TUV/03/SOP/018 Issue No. 02, Issue Date: 22/06/2012	0.1 µg/kg to 10000 µg/kg	

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		Tetracycline group (Oxytetracycline, tetracycline, chlortetracycline, doxycycline, 4-Epitetracycline, 4-Epioxytetracycline, 4-Epichlortetracycline)	TUV/03/SOP/017 Issue No. 02, Issue Date: 22/06/2012	10 µg/kg to 10000 µg/kg
		Nitrofurantoin metabolite (AHD, AMOZ, AOZ, SEM)	TUV/03/SOP/019 Issue No. 02, Issue Date: 22/06/2012	0.5 µg/kg to 10000 µg/kg
		Trimethoprim	TUV/03/SOP/083 Issue No. 01, Issue Date: 20/10/2014	10 µg/kg to 10000 µg/kg
		Oxolinic acid	TUV/03/SOP/083 Issue No. 01, Issue Date: 20/10/2014	10 µg/kg to 10000 µg/kg

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	Milk & Dairy Products and Infant Foods (Infant Milk Food, Infant Formula, Hypoallergic Infant Milk Substitute, Processed Cereal Based Complementary Food, Follow- Up Formula- Complementary Food, Ice Cream, Dahi, Cheese, Paneer, Ghee)	β lactum (Penicillin G, Ampicillin, Amoxicillin, Oxacillin, Cloxacillin, Dicloxacillin, Nefcillin)	β lactum Rapid Test Kit based on AOAC Vol.92 No.3 May 2009 pp.959-974	1 μ g/l to 100 μ g/l
7.	Food Grains, Pulses, Cereals, Seeds & Related Products (Atta, Wheat, Corn Flakes, Malted Products, Macroni, Noodles, Spaghetti)	Moisture	IS 1155: 1968, IS 1009: 1979, IS 2400: 1976, IS 1010: 1968, IS 9629: 2004, IS 1156: 1957, IS 1157: 1957, IS 1158: 1973, IS 1485: 1993, TUV/02/SOP/028 Issue No. 01 Issue Date: 24/03/2014 , AOAC (19 th Edition) 925.10, AOAC (19 th Edition) 945.39, AOAC (19 th Edition) 925.09, DGHS 2005: Lab Manual 3/ GAFTA(Method 2.2, 2.3,2.4)	0.75 % to 90 %

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	Food Grains, Pulses, Cereals, Seeds & Related Products (Atta, Wheat, Corn Flakes, Malted Products, Macaroni, Noodles, Spaghetti)	Total Ash	IS 1155: 1968, IS 1009: 1979, IS 2400:1976, IS 1010: 1968, IS 9629: 2004, IS 1156: 1957, IS 1157: 1957, IS 1158: 1973, IS 1485: 1993, AOAC (19 th Edition) 923.03, DGHS 2005: Lab Manual 3/ TUV/02/SOP/025 Issue No. 01, Issue Date: 24/03/2014, GAFTA (Method 12.0)	0.1 % to 15 %
		Acid Insoluble Ash	IS 1155: 1968, IS 1009: 1979 , IS 2400: 1976, IS 1010: 1968, IS 9629: 2004, IS 1156: 1957, IS 1157: 1957, IS 1158: 1973, IS 1485: 1993, DGHS 2005: Lab Manual 3/ TUV/02/SOP/025 Issue No. 01, Issue Date: 24/03/2014, GAFTA (Method 13)	0.01 % to 5 %
		Crude Fibre	IS 1155: 1968, IS 9629: 2004, IS 1156: 1957, IS 1157: 1957, IS 1158: 1973, IS 10226 (Part 1): 1982, DGHS 2005: Lab Manual 3/ TUV/02/SOP/026 Issue No. 01, Issue Date: 24/03/2014 , GAFTA (Method 10)	0.01 % to 40 %

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	Food Grains, Pulses, Cereals, Seeds & Related Products (Atta, Wheat, Corn Flakes, Malted Products, Macaroni, Noodles, Spaghetti)	Gluten Content	IS 1155: 1968, IS 1009: 1979, IS 1010: 1968, DGHS 2005: Lab Manual 3/ TUV/02/SOP/014 Issue No. 01, Issue Date: 24/03/2014, GAFTA (Method 34.1), BY ELISA AOAC (19 th Edition) 2014.03 ELISA Method	1.0 % to 20 %
		Alcoholic acidity	IS 1155: 1968, IS 1009: 1979, IS 1010: 1968, IS 9629: 2004, IS 1156: 1957, IS 1157: 1957, IS 1158: 1973, DGHS 2005: Lab Manual 3	0.01 % to 10 %
		Uric acid	IS 1009: 1979, IS 4333(Part 5): 1970, DGHS 2005: Lab Manual 3	(0.5 mg to 200 mg) / Kg
		Starch content	ASTA 8.0 (4 th Edition), IS 15279: 2003, IS 4706(Part 2): 1978	1 % to 90 %
		Free Gossypol	DGHS 2005: Lab Manual 3 GAFTA Method No. 23	0.01 % to 5 %
		Total gossypol	DGHS 2005: Lab Manual 3 GAFTA Method No. 23	0.01 % to 5 %

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	Food Grains, Pulses, Cereals, Seeds & Related Products (Atta, Wheat, Corn Flakes, Malted Products, Macaroni, Noodles, Spaghetti)	Physical inspection (Extraneous matter, Other foodgrains, Damaged grains, Discoloured grains, Insect damaged grains, Shrivelled / Shrunken / Broken, Foreign matter, Admixture, Weevilled grain)	Physical Inspection, FSSAI Rules & Regulation Book, AGMARK Manual Methods (of Cereals, Paddy, Wheat, Maize), TUV/02/SOP/029 Issue No. 01, Issue Date: 20/10/2014	0.05 % to 10 %
		Adultration (Added colour)	DGHS 2005: Lab Manual 8	Qualitative (Present/ Absent)
		Protein	IS 2400: 1976, IS 9629: 2004, IS 1156: 1957, IS 1157: 1957, IS 7219: 1973, IS 1485: 1993, DGHS 2005: Lab Manual 3/ TUV/02/SOP/002 Issue No. 01, Issue Date: 23/11/2012, GAFTA Method 4	0.1 % to 50 %
		Hexane	TUV/03/SOP/087 Issue No. 01, Issue Date: 21/10/2014	2.5 mg/kg to 100 mg/kg
8.	Bakery & Confectionery Products (Bread, Cake, Biscuits, Cookies, Chocolate, Sugar Boiled Confectionary Lozenges)	Moisture	IS 12711: 1989, IS 1011: 2002, IS 6287: 1985 , TUV/02/SOP/028 Issue No. 01, Issue Date: 24/03/2014 , IS 1163: 1992, IS 9712: 1981, IS 1164: 1986, DGHS 2005: Lab Manual 4/ DGHS 2005: Lab Manual 4/ AOAC (19 th Edition) 977.10	0.75 % to 90 %

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	Bakery & Confectionery Products (Bread, Cake, Biscuits, Cookies, Chocolate, Sugar Boiled Confectionary Lozenges)	Acidity of extracted fat	IS 1011: 2002, IS 12711: 1989, IS 9712: 1981	0.01 % to 10 %
		Total Solids	IS 12711: 1989/ IS 1483: 1988	1 % to 90 %
		Non fat milk solids / Milk solids	IS 12711: 1989, DGHS 2005: Lab Manual 4	1 % to 50 %
		pH	IS 12711: 1989, IS 1483: 1988	1 to 14
		Protein	AOAC (19 th Edition) 2001.11, IS 6287: 1985, TUV/02/SOP/002 Issue No. 01, Issue Date: 23/11/2012 , DGHS 2005: Lab Manual 4 DGHS 2005: Lab Manual 4	1 % to 50 %
		Fat	IS 12711: 1989, IS 6287: 1985, TUV/02/SOP/005 Issue No. 01 Issue Date: 26/06/2013 , IS 1163: 1992, TUV/03/SOP/037 Issue No. 02 Issue Date: 25/06/2012 , DGHS 2005: Lab Manual 4 DGHS 2005: Lab Manual 4	0.1 % to 30 %
		Milk Protein	AOAC (19 th Edition) 939.02	1 % to 80 %
		Ash	IS 12711: 1989 TUV/02/SOP/025 Issue No. 01, Issue Date: 24/03/2014	0.1 % to 15 %

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	Bakery & Confectionery Products (Bread, Cake, Biscuits, Cookies, Chocolate, Sugar Boiled Confectionary Lozenges)	Acid Insoluble Ash	IS 12711: 1989, IS 1011: 2002, IS 1483: 1988, IS 6287: 1985, IS 1163: 1992, IS 9712: 1981, DGHS 2005: Lab Manual 4 DGHS 2005: Lab Manual 4 FSSAI Draft Manual 4	0.01 % to 5 %
		Crude Fibre	IS 12711: 1989, IS 1483: 1988	0.01 % to 30 %
		Sugar/ Sucrose	IS 6287: 1985, IS 1163: 1992, DGHS 2005: Lab Manual 4 DGHS 2005: Lab Manual 4 TUV/02/SOP/013 Issue No. 01, Issue Date: 24/03/2014	1 % to 99 %
		Reducing Sugar	IS 6287: 1985, DGHS 2005: Lab Manual 4 DGHS 2005: Lab Manual 4 TUV/02/SOP/013 Issue No. 01, Issue Date: 24/03/2014	1 % to 95 %
		Starch	IS 4706 (Part 2): 1978	1 % to 90 %
		Sulphated ash	AOAC (19 th Edition) 900.02 IS 6287: 1985, DGHS 2005: Lab Manual 4	0.01 % to 2 %
		Alcoholic Acidity	IS 12711: 1989	0.01 % to 10 %
		Cocoa Solids	DGHS 2005: Lab Manual 4	0.1 % to 30 %
		Gum Content	DGHS 2005: Lab Manual 4	0.1 % to 30 %
		Milk Fat	IS 1163: 1992, DGHS 2005: Lab Manual 4 AOAC (19 th Edition) 920.80	0.1 % to 50 %

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	Bakery & Confectionery Products (Bread, Cake, Biscuits, Cookies, Chocolate, Sugar Boiled Confectionary Lozenges)	Filth	DGHS 2005: Lab Manual 4/ TUV/02/SOP/029 Issue No. 01, Issue Date: 20/10/2014	Qualitative
9.	Honey & Honey Products	Specific Gravity	IS 4941: 2002 DGHS 2005: Lab Manual 4	1.000 to 1.9000
		Moisture	IS 4941: 2002 DGHS 2005: Lab Manual 4 AOAC (19 th Edition) 969.38, TUV/02/SOP/028 Issue No. 01, Issue Date: 24/03/2014	0.1 % to 30 %
		Total Reducing Sugar	IS 4941: 2002 DGHS 2005: Lab Manual 4 TUV/02/SOP/013 Issue No. 01, Issue Date: 24/03/2014	30 % to 85 %
		Ash	IS 4941: 2002 DGHS 2005: Lab Manual 4 AOAC (19 th Edition) 920.181, TUV/02/SOP/025 Issue No. 01, Issue Date: 24/03/2014	0.01 % to 10 %
		Acidity	IS 4941: 2002, DGHS 2005: Lab Manual 4 AOAC (19 th Edition) 962.19	0.01 % to 10 %
		Fructose Glucose Ratio	IS 4941: 2002 DGHS 2005: Lab Manual 4	0.8 to 1.5

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	Honey & Honey Products	Fiehes Test (qualitative)	IS 4941: 2002, DGHS 2005: Lab Manual 4	Qualitative (Present / Absent)
		Aniline chloride test	DGHS 2005: Lab Manual 4	Qualitative (Present / Absent)
		Sucrose	IS 4941: 2002, DGHS 2005: Lab Manual 4	0.01 % to 10 %
		Hydroxymethyl furfural (HMF)	IS 4941: 2002, AOAC (19 th Edition) 980.23	0.1 mg to 200 mg/kg
		Foreign matter/ extraneous matter	TUV/02/SOP/029 Issue No. 01, Issue Date: 20/10/2014	Qualitative (Present / Absent)
10.	Oil, Fats and Related Products (Soyabean, Sunflower Oil, Edible Fat, Vegetable Oil, Vegetable Fat, Margarines & Fat Spreads)	Moisture & volatile matter	IS 548(Part 1): 1964, AOCS Ca 2c-25, AOCS Ca 2d-25, AOCS Ca 2b-38, AOCS Ca 2a-45, AOAC (19 th Edition) 926.12, ISO 760	0.01 % to 5 %
		Acid value	IS 548(Part 1): 1964, AOCS Cd 3d-63, DGHS 2005: Lab Manual 2	0.01 to 10
		Free Fatty Acid	IS 548 (Part 1): 1964, DGHS 2005: Lab Manual 2 ISO 660 Chapter 5, IS 1263: 1986	0.01 % to 10 %
		Saponification Value	IS 548 (Part 1): 1964, AOCS Cd 3-25, AOAC (19 th Edition) 920.160, DGHS 2005: Lab Manual 2 IS 1263: 1986	2 to 300

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	Oil, Fats and Related Products (Soyabean, Sunflower Oil, Edible Fat, Vegetable Oil, Vegetable Fat, Margarines & Fat Spreads)	Unsaponifiable Matter	IS 548 (Part 1): 1964, AOCS Ca 6a-40 , DGHS 2005: Lab Manual 2 IS 1263: 1986	0.1 % to 10 %
		Iodine Value	IS 548 (Part 1): 1964, AOCS Cd 1-25, DGHS 2005: Lab Manual 2 IS 1263: 1986	1 to 200
		Peroxide Value	IS 548 (Part 1): 1964 , DGHS 2005: Lab Manual 2 ISO 3960	0.1 mEq to 250 mEq/Kg
		Adulterants (Argemone Oil Test, Baudouin Test, Ricebran oil, Linseed oil, Castor oil, Cotton Seed oil, Added Mineral oil)	AGMARK, IS 548 (Part 2): 1976 , DGHS 2005: Lab Manual 2	Qualitative (Present / Absent)
		Beliers Turbidity Temperature	IS 548(Part 2): 1976 , DGHS 2005: Lab Manual 2	10 °C to 80 °C
		Cloud point	DGHS 2005: Lab Manual 2 AOCS Cc 6-25	1 °C to 30 °C
		Flash Point	DGHS 2005: Lab Manual 2 AOCS Cc 9b-55	200 °C to 350 °C
		Specific Gravity	IS 548(Part 1): 1964 DGHS 2005: Lab Manual 2	0.5000 to 1.9000

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	Oil, Fats and Related Products (Soyabean, Sunflower Oil, Edible Fat, Vegetable Oil, Vegetable Fat, Margarines & Fat Spreads)	Butyro - refractometer reading at 40 °C	IS 548(Part 1): 1964, AOCS Cc 7-25	10 to 80
		Refractive index at 40°C	IS 548(Part 1): 1964, AOCS Cc 7-25, IS 1263: 1986	1.3 to 1.8
		Hexane	TUV/03/SOP/087 Issue No. 01, Issue Date: 21/10/2014	(2.5 mg to 100 mg)/ kg
		Polenske value	IS 548 (Part 1): 1964, AOCS Cd 5-40, DGHS 2005: Lab Manual 2	0.1 to 50
		Rancidity	DGHS 2005: Lab Manual 2 FSSAI Instruction manual Part 2 (Methods for detection of adulterants)	Qualitative
		Moisture/Total Solids	IS 12451: 1988, AOAC (19 th Edition) 935.56	5 % to 60 %
		Fat (Total)	AOAC (19 th Edition) 950.54	20 % to 95 %
		Vegetable Oil	IS 12451: 1988	20 % to 95 %
		Acid Value Of Extracted Fat	IS 12451: 1988, IS 548 (Part 1): 1964	0.01 to 5
		Unsaponifiable Matter Of Extracted Fat	IS 12451: 1988, IS 548 (Part 1): 1964	0.01 % to 2 %
	Salt As Sodium Chloride	IS 12451: 1988 TUV /02/SOP/030 Issue No. 01, Issue Date: 20/10/2014	0.01 % to 5 %	

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11.	Spices & Condiments, Spice Oils & Oleoresins, Saffron (Cumin Seeds, Coriander, Turmeric, Pepper, Mixed Masala, Dehydrated Onion)	Moisture Content	AOAC (19 th Edition) 941.11, AOAC (19 th Edition) 986.21, IS 1797: 1985, IS 1908: 2008, IS 2322: 2010, IS 2323: 1983, IS 2443: 2008, IS 2447: 2010, IS 3576: 2010, IS 3795: 2010, IS 13242: 1991, IS 13446: 2009, IS 3797: 2011, IS 4403: 2010, IS 4404: 2010, IS 5955: 1993, IS 7807: 1975, IS 4452: 2009, IS 13895: 1994, IS 6364: 1993, IS 9486: 2011, IS 10619: 1983, IS 11300: 1985, IS 5452: 2008, IS 13545: 1192, IS 13644: 1992, IS 1909: 1992, IS 4811: 1992 ASTA 2 (4 th Edition), ASTA 2.1 (4 th Edition), DGHS 2005: Lab Manual 10/ TUV/02/SOP/028 Issue No. 01 Issue Date: 24/03/2014	1 % to 85 %
		Moisture & volatile matter	IS 5453 (Part 1): 1996, IS 1908: 2008, DGHS 2005: Lab Manual 10/	0.5 % to 15 %
		Extraneous Matter	TUV/02/SOP/029 Issue No. 01, Issue Date: 20/10/2014	0.05 % to 10 %

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	Spices & Condiments, Spice Oils & Oleoresins, Saffron (Cumin Seeds, Coriander, Turmeric, Pepper, Mixed Masala, Dehydrated Onion)	Total Ash	IS 1797: 1985, IS 1908: 2008, IS 4452: 2009, IS 2322: 2010, IS 2323: 1983, IS 5453 (Part 2): 1996, IS 7807: 1975, IS 13446: 2009, IS 2443: 2008, IS 2447: 2010, IS 13242: 1991, IS 3576: 2010, IS 3795: 2010, IS 11300: 1985, IS 3797: 2011, IS 13895: 1994, IS 4404: 2010, IS 5955: 1993, IS 9486: 2011, IS 5452: 2008, IS 13545: 1192, IS 1909: 1992, ASTA 3.0 (4 th Edition), AOAC (19 th Edition) 941.12, DGHS 2005: Lab Manual 10 TUV/02/SOP/025 Issue No. 01, Issue Date: 24/03/2014	0.1 % to 10 %
		Acid Insoluble Ash	IS 1797: 1985, IS 1908: 2008, IS 7807: 1975, IS 4452: 2009, IS 2322: 2010, IS 2323: 1983, IS 13446: 2009, IS 2443: 2008, IS 13895: 1994, IS 2447: 2010, IS 13242: 1991, IS 3576: 2010, IS 5453 (Part 2): 1996 , IS 3795:2010, IS 3797:2011, IS 4404: 2010, IS 5955: 1993, IS 11300: 1985, IS 6364: 1993, IS 9486: 2011, IS 5452: 2008, IS 13545: 1192, IS 13644: 1992, IS 1909: 1992 , ASTA 4.0 (4 th Edition), DGHS 2005: Lab Manual 10 TUV/02/SOP/025 Issue No. 01, Issue Date: 24/03/2014	0.01 % to 10 %

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	Spices & Condiments, Spice Oils & Oleoresins, Saffron (Cumin Seeds, Coriander, Turmeric, Pepper, Mixed Masala, Dehydrated Onion)	Bulk Density (gm/Lit)	IS 1797: 1985, DGHS 2005: Lab Manual 10	(0.3 g to 0.8 g)/ mL
		Water Insoluble Ash	IS 1797: 1985, IS 1908: 2008	0.01 % to 5 %
		Crude Fiber	IS 1797: 1985, IS 2322: 2010, IS 13242: 1991, IS 4404: 2010, IS 4452: 2009, IS 13895: 1994, IS 13545: 1192, IS 1909: 1992, ASTA 7.0 (4 th Edition), DGHS 2005: Lab Manual 10 TUV/02/SOP/026 Issue No. 01, Issue Date: 24/03/2014	1 % to 40 %
		Starch	ASTA 8.0 (4 th Edition), IS 4706 (Part 2): 1978, DGHS 2005: Lab Manual 10	1 % to 90 %
		Salt	IS 3507: 1966 (RA 2009) AOAC (19 th Edition) 950.52, TUV/02/SOP/030 Issue No. 01, Issue Date: 20/10/2014, IS 13545: 1192, IS 1797: 1985	0.1 % to 25 %
		Volatile Oil	AOAC (19 th Edition) 962.17, IS 1797: 1985, IS 13446: 2009, IS 1908: 2008, IS 2443: 2008, IS 2447: 2010, IS 3797: 2011, IS 11300: 1985, IS 4403: 2010, IS 4404: 2010, IS 5452: 2008, IS 13545: 1192, IS 1909: 1992, IS 4811: 1992	(0.1 ml to 25 ml) /100g
	Capsaicin	ASTA 21.3 (4 th Edition)	1 SHU to 1000000 SHU	

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	Spices & Condiments, Spice Oils & Oleoresins, Saffron (Cumin Seeds, Coriander, Turmeric, Pepper, Mixed Masala, Dehydrated Onion)	Curcumin	IS 10925: 1984, ASTA 18.0 (4 th Edition), Food Chemical Codex (7 th Edition), DGHS 2005: Lab Manual 10	1 % to 10 %
		Lead Chromate	DGHS 2005: Lab Manual 10	Qualitative (Present / Absent)
		Colour	ASTA 20.1(4 th Edition)	1 to 500
		Alcohol Soluble Extract	IS 1797: 1985, IS 7807: 1975, ASTA 9.0 (4 th Edition), DGHS 2005: Lab Manual 10	0.5 % to 25 %
		Non-Volatile Ether Extract	IS 1797: 1985, IS 2322: 2010, IS 2323: 1983, IS 2447: 2010, IS 11300: 1985, IS 13545: 1192, IS 1909: 1992, DGHS 2005: Lab Manual 10 TUV/02/SOP/015 Issue No. 01, Issue Date: 24/03/2014	0.1 % to 30 %
		Cold Water Soluble Extract	IS 1797: 1985, IS 1908: 2008, IS 5452: 2008, IS 3795: 2010, DGHS 2005: Lab Manual 10	0.1 % to 70 %
		Bitterness, Expressed as Direct Reading of The Absorbance of Picrocrocine at 257 nm	IS 5453 (Part 2): 1996, DGHS 2005: Lab Manual 10	20 % to 80 %
		Colouring Strength, Expressed as Reading of The Absorbance of Crocine at 440 nm	IS 5453 (Part 2): 1996, DGHS 2005: Lab Manual 10	50 % to 180 %

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	Spices & Condiments, Spice Oils & Oleoresins, Saffron (Cumin Seeds, Coriander, Turmeric, Pepper, Mixed Masala, Dehydrated Onion)	Safranal, Expressed as Direct Reading of The Absorbance at 330 nm	IS 5453 (Part 2): 1996 (RA 2012), DGHS 2005: Lab Manual 10	5 % to 70 %
		Coal Tar Dyes	DGHS 2005: Lab Manual 8	Qualitative (Present / Absent)
		Allylisoithiocyanate	IS 2323: 1983, DGHS 2005: Lab Manual 10 ASTA 15 (4 th Edition)	0.1 % to 10%
		Physical Inspection (Extraneous Matter/Impurities, Ammoniacum/Foreign Resin, Black And Broken Berries, Broken Fruits, Seed & Fragments, Floral Waste Colophony And Galbanum Resin, Damaged/Discoloured Fruits/Slices, Defective Rhizomes, Emty& Malformed Cpasules By Count, Foreign Seeds, Scorched, Toasted & Baked Particles, Headless, Tendrils, Khokar And Mother Cloves, Immature & Shrivelledcapsules, Light Seeds/Berries, Nutmeg In Mace, Seed Coatings, Split Fruits, Unripe & Marked Fruits, Added Mineral Oil, Peroxidase Test)	TUV/02/SOP/029 Issue No. 01, Issue Date: 20/10/2014	Qualitative (Present / Absent)

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	Spices & Condiments, Spice Oils & Oleoresins, Saffron (Cumin Seeds, Coriander, Turmeric, Pepper, Mixed Masala, Dehydrated Onion)	Piperine Content	IS 1798: 2010, ASTA 12.1(4 th Edition), AOAC (19 th Edition) 987.07, DGHS 2005: Lab Manual 10/	0.01 % to 10 %
12.	Sugar & by Products (Liquid Glucose, Dextrose, Sucrose, Lactose)	Moisture	IS 1151: 2003, IS 873: 1994, IS 874:1992, AOAC (19 th Edition) 945.62, AOAC (19 th Edition) 941.14, DGHS 2005: Lab Manual 4, ICUMSA GS 2/1/3 – 15 (2013), TUV/02/SOP/028 Issue No. 01 Issue Date: 24/03/2014 , ICUMSA GS 2/1/3 /9: 15 (2007), ICUMSA GS 4/7: 11 (1994), ICUMSA GS 4/7: 12 (1998), ICUMSA GS 7: 5 (1994), ICUMSA GS 8-6: 11 (2005),	0.01 % to 5 %
		Colour	ICUMSA GS 1/3/7 (2011), ICUMSA GS 2/3: 9 (2005), ICUMSA GS 2/3: 10 (2011)	5 ICUMSA to 45000 ICUMSA UNIT (IU _{7.0})
		pH	ICUMSA GS 1/1/2/3/4/7/8/9-23 (2009)	1 to 14
		Refractometric Dry Sub Stance (Brix)	ICUMSA GS 4/8 – 13 (1994)	0 to 99 %

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	Sugar & by Products (Liquid Glucose, Dextrose, Sucrose, Lactose)	Total Ash	DGHS 2005: Lab Manual 4 IS 1168: 1973, AOAC (19 th Edition) 945.28, TUV/02/SOP/025 Issue No. 01, Issue Date: 24/03/2014 , ICUMSA GS 8-7 (1998), IS 13952: 1996	0.01 % to 2 %
		Acid Insoluble Ash	IS 12924: 1990, IS 13952: 1996, IS 13953: 1994, IS 14400: 1996 DGHS 2005: Lab Manual 4 IS 12923: 1990, TUV/02/SOP/025 Issue No. 01, Issue Date: 24/03/2014, ICUMSA GS 8-8 (1998),	0.01 % to 1 %
		Water Insoluble Matter	DGHS 2005: Lab Manual 4 ICUMSA GS 2/3/9 – 19 (2007)	0.01 % to 0.5 %
		Sugar / Sucrose/ Invert Sugar	DGHS 2005: Lab Manual 4 IS 1152: 2003, IS 15279: 2003, IS 1168: 1973, IS 1151: 2003, IS 112923: 1990 AOAC (19 th Edition) 945.29, AOAC (19 th Edition) 923.09, AOAC (19 th Edition) 968.28, AOAC (19 th Edition) 970.58, TUV/02/SOP/013 Issue No. 01, Issue Date: 24/03/2014,	1 % to 99.98 %

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	Sugar & by Products (Liquid Glucose, Dextrose, Sucrose, Lactose)	Reducing Sugar	IS 1168: 1973, IS 1582: 1968, IS 5975: 2003, IS 873: 1974, AOAC (19 th Edition) 945.66, TUV/02/SOP/013 Issue No. 01, Issue Date: 24/03/2014, ICUMSA GS 1/3/7-3 (2005), ICUMSA GS 4/3 – 3 (2007), ICUMSA GS 4-5 (2003), ICUMSA GS 4/3 – 9 (2011), IS 1162: 1958, IS 8874: 1994	1 % to 99.98 %
		Sulphur Dioxide	AOAC (19 th Edition) 990.28	(10 mg to 1000 mg)/ kg
		Sulphated Ash	IS 15279: 2003, DGHS 2005: Lab Manual 4 ICUMSA GS 1 – 10 (1998), ICUMSA GS 3/4/7/8 – 11 (2000), ICUMSA GS 8-7 (1998), IS 1151: 2003, IS 1162: 1958, IS 5995: 2003, IS 8874: 1994	0.01 % to 5 %
		Starch In Icing Sugar	IS 15279: 2003, IS 1152: 2003, IS 1151: 2003 DGHS 2005: Lab Manual 4	0.1 % to 5 %
		Foreign Matter / Extraneous Matter	TUV/02/SOP/029 Issue No. 01, Issue Date: 20/10/2014	Qualitative (Present / Absent)
		Coal Tar Colour	DGHS 2005: Lab Manual 8	Qualitative (Present / Absent)
		Conductivity Ash	ICUMSA GS 1/3/4/7/8-13 (1994), ICUMSA GS 2/3/9 - 17 (2011), IS 1151: 2003, IS 15279: 2003	0.003 % to 1 %

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	Sugar & by Products (Liquid Glucose, Dextrose, Sucrose, Lactose)	Total Solid Content	DGHS 2005: Lab Manual 4 IS 873: 1994, IS 874: 1992, IS 8874: 1994	0.1 % to 99.9 %
13.	Alcoholic Drinks & Beverages (Whiskey Rum, Beer, Gin, Vodka, Brandies, Wine)	Residue on Evaporation	IS 7585: 1995, IS 3752: 2005, DGHS 2005: Lab Manual 16	0.01 % to 10 %
		Ethyl Alcohol	IS 7585: 1995, IS 3752: 2005, AOAC (19 th Edition) 942.06 AOAC (19 th Edition) 983.13, DGHS 2005: Lab Manual 16/	1 % to 95 %
		Ash Content	IS 3752: 2005	0.001 % to 5 %
		Total Acidity	IS 7585: 1995, IS 3752: 2005, AOAC (19 th Edition) 950.07, DGHS 2005: Lab Manual 16	(0.1 g to 500 g)/100 L Absolute Alcohol (AA)
		Volatile Acidity	IS 7585: 1995, IS 3752: 2005, DGHS 2005: Lab Manual 16	(0.1 g to 500 g)/ 100 L AA
		Fixed Acidity	IS 7585: 1995, IS 3752: 2005, AOAC (19 th Edition) 955.24	(0.1 g to 500 g)/ 100L
		Furfural	IS 7585: 1995, IS 3752: 2005, DGHS 2005: Lab Manual 16	(0.4 g to 100g)/ 100 L AA
		Esters	IS 3752: 2005, AOAC (19 th Edition) 950.05, DGHS 2005: Lab Manual 16	(0.1 g to 500g)/ 100 L AA
		Higher Alcohols	IS 3752: 2005, AOAC (19 th Edition) 968.09 (GC Method), DGHS 2005: Lab Manual 16	(0.1 g to 800 g)/ 100 L AA

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	Alcoholic Drinks & Beverages (Whiskey Rum, Beer, Gin, Vodka, Brandies, Wine)	Aldehydes	IS 3752: 2005, AOAC (19 th Edition) 950.05, AOAC (19 th Edition) 972.08, DGHS 2005: Lab Manual 16	(0.1 g to 500 g)/ 100 L AA
		Methyl alcohol	IS 3752: 2005, DGHS 2005: Lab Manual 16	(10 g to 500 g)/100 L AA
		Free SO ₂	IS 7585: 1995 (RA 2009)	1 mg/l to 1000mg/l
		Total SO ₂	IS 7585: 1995 (RA 2009)	1 mg/l to 1000 mg/l
		Suspended Solid	IS 3025 (Part 17)	0.01 % to 10 %
		Total Solids	IS 3025 (Part 15) APHA 2540 B	0.01 % to 50 %
		Dissolved Solid	IS 3025 (Part 16) APHA 2540 D	0.01 % to 50 %
		Reducing Sugars	IS 3752: 2005	1 g/l to 200 g/l
14.	Sodium Chloride, Salt, Iodized Salt & Fortified Salts	Moisture	IS 7224: 2006, IS 253: 1985	0.1 % to 10 %
		Matter Soluble in Water other than Sodium Chloride	IS 7224: 2006, IS 253: 1985, IS 12981: 1991	0.1 % to 10 %
		Water Insoluble Substances	IS 7224: 2006, IS 253: 1985, IS 12981: 1991	0.01 % to 5 %
		Sodium Chloride Content	IS 7224: 2006, IS 253: 1985, IS 12981: 1991	90 % to 100 %
		Acid Insoluble Matter	IS 253: 1985, IS 12981: 1991	0.01 % to 1 %

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	Sodium Chloride, Salt, Iodized Salt & Fortified Salts	pH	By pH meter	1 to 14
		Sulphate	IS 7224: 2006, IS 253: 1985, IS 12981: 1991	0.01 % to 5 %
		Alkalinity	IS 7224: 2006, IS 253: 1985	0.01 % to 0.5 %
15.	Fish & Fishery Product	Moisture	DGHS 2005: Lab Manual 6 IS 14950: 2001	1 % to 50 %
		Ash insoluble in HCl	DGHS 2005: Lab Manual 6 IS 14950: 2001	0.01 % to 20 %
		Extraneous Matter/Impurities	TUV/02/SOP/029 Issue No. 01, Issue Date: 20/10/2014	Qualitative (Present / Absent)
		Total Volatile Base Nitrogen	EC No. 2074/2005, DGHS 2005: Lab Manual 6	(5 mg to 150 mg)/ 100g
		Sodium chloride	DGHS 2005: Lab Manual 6 IS 14950: 2001, TUV/02/SOP/030 Issue No. 01, Issue Date: 20/10/2014	2 % to 20 %
		Acidity in brine (Citric acid)	DGHS 2005: Lab Manual 6	0.01 % to 2 %
		Chloramphenicol	TUV/03/SOP/018 Issue No. 02, Issue Date: 22/06/2012	0.1 µg/kg to 10000 µg/kg

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	Fish & Fishery Product	Sulfonamides (Sulfadiazine, Sulfamethoxazole, Sulfamerazine, Sulfadimidine, Sulfadimethoxine, Sulfapyridine, Sulfathiazole, Sulfamethizole, Sulfaguanidine, Sulphachloropyridazine, Sulphadoxine, Sulphamethoxypyridazine, Sulphanilamide)	TUV/03/SOP/083 Issue No. 01, Issue Date: 20/10/2014	10 µg/kg to 10000 µg/kg
		Tetracycline group (Oxytetracycline, tetracycline, chlortetracycline, doxycycline, 4-Epitetracycline, 4-Epioxytetracycline, 4-Epichlortetracycline)	TUV/03/SOP/017 Issue No. 02, Issue Date: 22/06/2012	10 µg/kg to 10000 µg/kg
		Nitrofurantoin Metabolite (AHD, AMOZ, AOZ, SEM)	TUV/03/SOP/019 Issue No. 02, Issue Date: 22/06/2012	0.5 µg/kg to 10000 µg/kg
		Histamine	TUV/03/SOP/079 Issue No. 02, Issue Date: 24/03/2014	25 mg/kg to 10000 mg/kg
		Trimethoprim	TUV/03/SOP/083 Issue No. 01, Issue Date: 20/10/2014	10 µg/kg to 10000 µg/kg
		Oxolinic Acid	TUV/03/SOP/083 Issue No. 01, Issue Date: 20/10/2014	10 µg/kg to 10000 µg/kg
		Malachite Green	TUV/03/SOP/044 Issue No. 02, Issue Date: 30/03/2012	0.5 µg/kg to 10000 µg/kg

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	Fish & Fishery Product	Leuco Malachite Green	TUV/03/SOP/044 Issue No. 02, Issue Date: 30/03/2012	0.5 µg/kg to 10000 µg/kg
		Crystal Violet	TUV/03/SOP/044 Issue No. 02, Issue Date: 30/03/2012	0.5 µg/Kg to 10000 µg/Kg
		Leuco Crystal Violet	TUV/03/SOP/044 Issue No. 02, Issue Date: 30/03/2012	0.5 µg/Kg to 10000 µg/Kg
		Organophosphorus		
		Methyl Paraxon	TUV/03/SOP/093 Issue No. 01, Issue Date: 22/10/2014	5 µg/kg to 10000 µg/kg
		Iprobenphos	TUV/03/SOP/093 Issue No. 01, Issue Date: 22/10/2014	5 µg/kg to 10000 µg/kg
		Methamidophos	TUV/03/SOP/093 Issue No. 01, Issue Date: 22/10/2014	5 µg/kg to 10000 µg/kg
		Monocrotophos	TUV/03/SOP/093 Issue No. 01, Issue Date: 22/10/2014	5 µg/kg to 10000 µg/kg
		Phorate Sulfoxide		5 µg/kg to 10000 µg/kg
		Quinalphos		5 µg/kg to 10000 µg/kg
		Triazophos		5 µg/kg to 10000 µg/kg
		Dimethoate		5 µg/kg to 10000 µg/kg
		Phosalone		5 µg/kg to 10000 µg/kg

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	Fish & Fishery Product	Diazinon	TUV/03/SOP/093 Issue No. 01, Issue Date: 22/10/2014	5 µg/kg to 10000 µg/kg
		Ethion		5 µg/kg to 10000 µg/kg
		Parathion Methyl		5 µg/kg to 10000 µg/kg
		Profenofos		5 µg/kg to 10000 µg/kg
		Chlorfenvinphos		5 µg/kg to 10000 µg/kg
		Chlorpyriphos		5 µg/kg to 10000 µg/kg
		Chlorpyrifos-methyl		5 µg/kg to 10000 µg/kg
		Parathion ethyl		5 µg/kg to 10000 µg/kg
		Phorate		5 µg/kg to 10000 µg/kg
		Phorate-sulfone		5 µg/kg to 10000 µg/kg
		Fenitrothion		5 µg/kg to 10000 µg/kg
	Dichlorovos	TUV/03/SOP/093 Issue No. 01, Issue Date: 22/10/2014	5 µg/kg to 10000 µg/kg	
	Malathion		5 µg/kg to 10000 µg/kg	
	Malaxon		5 µg/kg to 10000 µg/kg	

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	Fish & Fishery Product	Organochlorine		
		Aldrin	TUV/03/SOP/093 Issue No. 01, Issue Date: 22/10/2014	5 µg/kg to 10000 µg/kg
		Dieldrin		5 µg/kg to 10000 µg/kg
		alpha-endosulphan		5 µg/kg to 10000 µg/kg
		beta-endosulphan		5 µg/kg to 10000 µg/kg
		Endosulphan sulphate		5 µg/kg to 10000 µg/kg
		Heptachlor		5 µg/kg to 10000 µg/kg
		Heptachlor epoxide		5 µg/kg to 10000 µg/kg
		Lindane		5 µg/kg to 10000 µg/kg
		Dicofol		5 µg/kg to 10000 µg/kg
		Endrin		5 µg/kg to 10000 µg/kg
		Alpha-HCH	TUV/03/SOP/093 Issue No. 01, Issue Date: 22/10/2014	5 µg/kg to 10000 µg/kg
		beta-HCH		5 µg/kg to 10000 µg/kg
		delta-HCH		5 µg/kg to 10000 µg/kg
		Alachor		5 µg/kg to 10000 µg/kg
		Butachlor		5 µg/kg to 10000 µg/kg
		p-p'-DDT		5 µg/kg to 10000 µg/kg

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	Fish & Fishery Product	o,p'DDT	TUV/03/SOP/093 Issue No. 01, Issue Date: 22/10/2014	5 µg/kg to 10000 µg/kg
		p,p'DDE		5 µg/kg to 10000 µg/kg
		o,p'-DDE		5 µg/kg to 10000 µg/kg
		p,p'-DDD		5 µg/kg to 10000 µg/kg
		o,p'-DDD	TUV/03/SOP/093 Issue No. 01, Issue Date: 22/10/2014	5 µg/kg to 10000 µg/kg
		Cis-chlordane		5 µg/kg to 10000 µg/kg
		Trans-chlordane		5 µg/kg to 10000 µg/kg
		Synthetic Pyrethroids		5 µg/kg to 10000 µg/kg
		Cypermethrin	TUV/03/SOP/093 Issue No. 01, Issue Date: 22/10/2014	5 µg/kg to 10000 µg/kg
		Deltamethrin		5 µg/kg to 10000 µg/kg
		Fenvelarate & Esfenvelarate		5 µg/kg to 10000 µg/kg
		Acycloaminoacid fungicides		5 µg/kg to 10000 µg/kg
		Metalaxyl&Metalaxyl M	TUV/03/SOP/093 Issue No. 01, Issue Date: 22/10/2014	5 µg/kg to 10000 µg/kg
		Triazines		
	Atrazine	TUV/03/SOP/093 Issue No. 01, Issue Date: 22/10/2014		5 µg/kg to 10000 µg/kg
	Bitertanol			5 µg/kg to 10000 µg/kg
	Flusilazole			5 µg/kg to 10000 µg/kg

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	Fish & Fishery Product	Hexaconazole	TUV/03/SOP/093 Issue No. 01, Issue Date: 22/10/2014	5 µg/kg to 10000 µg/kg
		Myclobutanil		5 µg/kg to 10000 µg/kg
		Penconazole		5 µg/kg to 10000 µg/kg
		Propiconazole	TUV/03/SOP/093 Issue No. 01, Issue Date: 22/10/2014	5 µg/kg to 10000 µg/kg
		Carbaryl		5 µg/kg to 10000 µg/kg
16.	Meat & Poultry Products (Chicken, Mutton, Egg, Frozen & Canned Meat Products, Processed Meat & Poultry Products)	Moisture	IS 5960 (Part 5): 2001, IS 4723: 1978, IS 10382: 1982 TUV/02/SOP/028 Issue No. 01 Issue Date: 24/03/2014 , AOAC (19 th Edition) 950.46, AOAC (19 th Edition) 925.30,	0.1 % to 90 %
		Ash	IS 5960 (Part 2): 2000 TUV/02/SOP/025 Issue No. 01, Issue Date: 24/03/2014, AOAC (19 th Edition) 920.153,	0.1 % to 10 %
		Acid Insoluble Ash	IS 7582: 1975, TUV/02/SOP/025 Issue No. 01, Issue Date: 24/03/2014	0.01 % to 5 %
		Crude Fat (Free)/Ether Extract	TUV/02/SOP/005 Issue No. 01 Issue Date: 26/06/2013, TUV/03/SOP/037 Issue No. 02 Issue Date: 25/06/2012, AOAC (19 th Edition) 960.39, AOAC (19 th Edition) 991.36, IS 5960 (Part 5): 1997, IS 4723: 1978	0.1 % to 50 %

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	Meat & Poultry Products (Chicken, Mutton, Egg, Frozen & Canned Meat Products, Processed Meat & Poultry Products)	Fat (Total)	TUV/02/SOP/005 Issue No. 01 Issue Date: 26/06/2013 , IS 3044: 1973, IS 11748: 1986, IS 5960 (Part 3): 1970, IS 12542: 1988, IS 12543: 1988, AOAC (19 th Edition) 925.32, DGHS 2005: Lab Manual 6	0.1 % to 50 %
		Protein	TUV/02/SOP/002 Issue No. 01, Issue Date: 23/11/2012, AOAC (19 th Edition) 928.08, AOAC (19 th Edition) 925.31, IS 5960 (Part 1): 1996, IS 7219: 1973, IS 4723: 1978, IS 10382: 1982, DGHS 2005: Lab Manual 6	0.1 % to 98 %
		Sodium Chloride	IS 1743: 1973, IS 3044: 1973, IS 12542: 1988, IS 5960 (Part 6/Sec I): 1997, IS 12543: 1988, IS 12542: 1988, IS 12561: 1988, TUV/02/SOP/030 Issue No. 01, Issue Date: 20/10/2014	0.1 % to 10 %
		Phosphorus(Total)	IS 5960 (Part 7): 1996, IS 5960(Part 16): 2004 AOAC (19 th Edition) 969.31, DGHS 2005: Lab Manual 6	0.5 % to 10 %
		Nitrite	IS 5960 (Part 7): 1996, IS 12542: 1988 DGHS 2005: Lab Manual 6	0.2 mg/kg to 500 mg/kg

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	Meat & Poultry Products (Chicken, Mutton, Egg, Frozen & Canned Meat Products, Processed Meat & Poultry Products)	Ascorbic Acid	DGHS 2005: Lab Manual 6	5 mg/kg to 1000 mg/kg
		Total Volatile Base Nitrogen (TVBN)	EC No. 2074: 2005, DGHS 2005: Lab Manual 6	(5 mg to 150 mg)/ 100g
		Matter Insoluble in Water	IS 11748: 1986	0.01 % to 10%
		Pesticides		
		Aldrin	TUV/03/SOP/093 Issue No. 01, Issue Date: 22/10/2014	0.005 mg/kg to 100 mg/kg
		Dieldrin		
		2,4D		
		Benomyl		
		Carbendazim		
		Carbofuran		
	3-Hydroxy Carbofuran			
	Chlorfenvinphos			
	Chlorpyrifos			
	Cypermethrin			
	D.D.D.			
	D.D.E.			

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	Meat & Poultry Products (Chicken, Mutton, Egg, Frozen & Canned Meat Products, Processed Meat & Poultry Products)	D.D.T.	TUV/03/SOP/093 Issue No. 01, Issue Date: 22/10/2014	0.005 mg/kg to 100 mg/kg
		Edifenphos		
		Ethion		
		Fenitrothion		
		Fenthion		
		Fenthion Sulphoxide		
		Fenthion Sulphone		
		Fenvalerate		
		Lindane		
		Monocrotophos		
		Phenthoate		
		Phorate		
		Phorate sulphoxide		
		Phorate sulphone		
		Trichlorfon		
	Pirimiphos methyl			
	Fenthoate			

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17.	Minerals & Metals in Food Products	Sodium	TUV/03/SOP/004 Issue No. 02, Issue Date: 30/05/2012	0.25 mg/kg to 10000 mg/kg
		Potassium		0.25 mg/kg to 10000 mg/kg
		Calcium		0.25 mg/kg to 10000 mg/kg
		Phosphorous		0.25 mg/kg to 10000 mg/kg
		Iron		0.25 mg/kg to 1000 mg/kg
		Zinc		0.25 mg/kg to 1000 mg/kg
		Copper		0.25 mg/kg to 1000 mg/kg
		Magnesium		0.25 mg/kg to 1000 mg/kg
		Manganese		0.1 mg/kg to 1000 mg/kg
		Selenium		0.01 mg/kg to 1000 mg/kg
		Iodine	TUV/03/SOP/087 Issue No. 01, Issue Date: 31/10/2014	0.25 mg/kg to 1 %
Nickel	TUV/03/SOP/004 Issue No. 02, Issue Date: 30/05/2012	0.1 mg/kg to 100 mg/kg		

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	Minerals & Metals in Food Products	Aluminium	TUV/03/SOP/004 Issue No. 02, Issue Date: 30/05/2012	0.25 mg/kg to 1000 mg/kg
		Tin		0.1 mg/kg to 500 mg/kg
		Arsenic		0.05 mg/kg to 100 mg/kg
		Cadmium		0.05 mg/kg to 100 mg/kg
		Chromium		0.05 mg/kg to 100 mg/kg
		Lead		0.05 mg/kg to 100 mg/kg
		Mercury		0.025 mg/kg to 100 mg/kg
18.	All Categories of Foods, Feed & Nutritional Supplement	Proximate & nutritional parameters		
		Energy / Calories	FAO Food & Nutrition Paper 77, 2003, By calculation	(40 Kcal to 900 Kcal) / 100 g
		Carbohydrates	AOAC (19 th Edition) 986.25, By calculation	0.1 % to 99 %
		Total Fat	TUV/02/SOP/005 Issue No. 01 Issue Date: 26/06/2013 , TUV/03/SOP/037 Issue No. 02 Issue Date: 25/06/2012	0.01 % to 99 %
	Fatty acid profile (Saturated Fat, Monounsaturated Fatty Acids (MUFA), Polyunsaturated Fatty Acids (PUFA), trans Fat)	TUV/03/SOP/023 Issue No. 01 Issue Date: 02/07/2012	0.1 % to 100 %	

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	All Categories of Foods, Feed & Nutritional Supplement	Protein	TUV/02/SOP/002 Issue No. 01, Issue Date: 23/11/2012	0.01 % to 97 %
		Cholesterol	TUV/03/SOP/022 Issue No. 02, Issue Date: 29/05/2012	(5 mg to 1000 mg)/ 100g
		Sugars	TUV/02/SOP/013 Issue No. 01, Issue Date: 24/03/2014	0.1 % to 99 %
		Total Dietary Fibre	AOAC (19 th Edition) 985.29, AOAC (19 th Edition) 991.43 TUV/02/SOP/027 Issue No. 01, Issue Date: 24/03/2014	0.01 % to 95 %
		Soluble Dietary Fibre	AOAC (19 th Edition) 985.29, AOAC (19 th Edition) 991.43 TUV/02/SOP/027 Issue No. 01, Issue Date: 24/03/2014	0.01 % to 95 %
		Insoluble Dietary Fibre	AOAC (19 th Edition) 985.29, AOAC (19 th Edition) 991.43 TUV/02/SOP/027 Issue No. 01, Issue Date: 24/03/2014	0.01 % to 95 %
		Filth	DGHS 2005: Lab Manual 3/ AOAC (19 th Edition) 950.86, AOAC (19 th Edition) 993.26, AOAC (19 th Edition) 970.71, TUV/02/SOP/029 Issue No. 01, Issue Date: 20/10/2014	NA

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	All Categories of Foods, Feed & Nutritional Supplement	Vitamins		
		Vitamin A	TUV/03/SOP/040 Issue No. 02, Issue Date: 25/06/2012	0.25 mg/kg to 100 %
		Vitamin E	TUV/03/SOP/011 Issue No. 02, Issue Date: 25/06/2012	5 to 1000 mg/100g
		Vitamin D3	TUV/03/SOP/040 Issue No. 02, Issue Date: 25/06/2012	0.5 mg/kg to 100 %
		Vitamin C	IS 5838: 2005	5 mg/kg to 100 %
		Vitamin B1	TUV/03/SOP/012 Issue No. 02, Issue Date: 25/06/2012	5 mg/kg to 100 %
		Vitamin B2	TUV/03/SOP/012 Issue No. 02, Issue Date: 25/06/2012	5 mg/kg to 100 %
		Vitamin B3	TUV/03/SOP/012 Issue No. 02, Issue Date: 25/06/2012	5 mg/kg to 100 %
		Vitamin B6	TUV/03/SOP/012 Issue No. 02, Issue Date: 25/06/2012	5 mg/kg to 100 %
		Vitamin B9	TUV/03/SOP/012 Issue No. 02, Issue Date: 25/06/2012	5 mg/kg to 100 %
		Vitamin B5	TUV/03/SOP/012 Issue No. 02, Issue Date: 25/06/2012	5 mg/kg to 100 %
		Vitamin B12	TUV/03/SOP/012 Issue No. 02, Issue Date: 25/06/2012	5 mg/kg to 100 %
		Biotin	TUV/03/SOP/012 Issue No. 02, Issue Date: 25/06/2012	5 mg/kg to 100 %

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	All Categories of Foods, Feed & Nutritional Supplement	Vitamin K3	TUV/03/SOP/003 Issue No. 02, Issue Date: 25/06/2012	5 mg/kg to 100 %
		Choline	TUV/03/SOP/081 Issue No. 01, Issue Date: 20/10/2014	0.1 mg/kg to 100 %
		Carnitine	TUV/03/SOP/081 Issue No. 01, Issue Date: 20/10/2014	0.1 mg/kg to 100 %
		Inositol	TUV/03/SOP/090 Issue No. 01, Issue Date: 22/10/2014	5 mg/kg to 100 %
		Artificial sweetner (Ascesulfame, Asparatme K, Saccharine, Sucralose)	TUV/03/SOP/061 Issue No. 01, Issue Date: 26/11/2012	5 mg/kg to 100 mg/kg
		Amino Acids	TUV/03/SOP/063 Issue No. 01, Issue Date: 13/02/2013	1 mg/kg to 100 %
		Sodium Chloride (Salt)	TUV/02/SOP/030 Issue No. 01, Issue Date: 20/10/2014	0.1 % to 30 %
		Crude Fibre	TUV/02/SOP/026 Issue No. 01, Issue Date:: 24/03/2014	0.01 % to 60 %

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	All Categories of Foods, Feed & Nutritional Supplement	Acidity	AOAC (19 th Edition) 920.43, DGHS 2005: Lab Manual 5 AOAC (19 th Edition) 950.15, IS 13844: 2003, IS 874: 1992, DGHS 2005: Lab Manual 5 IS 13844: 2003 AOAC (19 th Edition) 942.15 IFU No.3, IS 2860: 1964, IS 11766: 1986 (RA 2008) IS 1479 (Part 1): 1960 (RA 2009), IS 1166: 1986 Annexure D, IS 12561: 1988	0.01 % to 10 %	
		pH	By pH Meter, IFU No.11	1 to 14	
		Safety parameters			
		Food color (Carmine, Ponceau, Sunset yellow, Fast green, Carmozine, Erythrocin)	TUV/03/SOP/088 Issue No. 01, Issue Date: 21/10/2014	10 mg/kg to 1000 mg/Kg	
		Aflatoxins Aflatoxin B1, Aflatoxin B2, Aflatoxin G1, Aflatoxin G2	TUV/03/SOP/084 Issue No. 01, Issue Date: 20/10/2014	0.25 mg/kg to 1000 µg/kg	
	Ochratoxin A	TUV/03/SOP/084 Issue No. 01, Issue Date: 20/10/2014	0.25 mg/kg to 1000 µg/kg		

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	All Categories of Foods, Feed & Nutritional Supplement	Toxins (Deoxynevalenol(DON), Patulin, T2 – Toxins, Zearalenone, Fumoinisin B1, Fumoinisin B2)	TUV/03/SOP/084 Issue No. 01, Issue Date: 20/10/2014	10 mg/kg to 1000 µg/kg
		Naturally Occurring Toxins		
		Saffrole	TUV/03/SOP/062 Issue No. 01, Issue Date: 26/11/2012	5 mg/kg to 100 mg/kg
		Agaric Acid		10 mg/kg to 100 mg/kg
		Hypercene		1 mg/kg to 100 mg/kg
		Hydrocyanic Acid		1 mg/kg to 100 mg/kg
		Antioxidants		
		BHA	AOAC (19 th Edition) 983.15	0.5 mg/kg to 1000 mg/kg
		BHT	AOAC (19 th Edition) 983.15	0.5 mg/kg to 1000 mg/kg
		TBHQ	AOAC (19 th Edition) 983.15	0.5 mg/kg to 1000 mg/kg
	Sulphur dioxide	AOAC (19 th Edition) 990.28	0.5 mg/kg to 1000 mg/kg	
	Peroxide value of extracted fat	IS 548 (Part 1): 1964, IS 3077: 1992	0.1 to 100 mEq / Kg	

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	All Categories of Foods, Feed & Nutritional Supplement	Preservatives		
		Sorbic acid	AOAC (19 th Edition) 979.08	10 mg/kg to 1 %
		Benzoic acid	AOAC (19 th Edition) 979.08	10 mg/kg to 1 %
		Banned Dyes (Sudan I, Sudan II, Sudan III, Sudan IV, Para Red, Rhodamine-B)	TUV/03/SOP/020 Issue No. 02, Issue Date: 22/06/2012	5 µg/ kg to 5000 µg/ kg
19.	Pesticides in Fruits & Vegetable, Cereals, Beverages, Milk & Products	Pesticide Residues in Food & Water		
		Organochlorine (OC)	TUV/03/SOP/014 Issue No. 02, Issue Date: 29/05/2012	0.005 mg/kg to 1000 mg/kg
		Aldrin (expressed as Dieldrin)	AOAC 2007.01 (19 th Edition), TUV/03/SOP/035 Issue No. 02, Issue Date: 22/06/2012,	
		Chlordane (cis& trans)	TUV/03/SOP/085 Issue No. 01, Issue Date: 20/10/2014	
		Chlorothalonil		
		DDT (all isomers, sum of p,p'-DDT, o,p'-DDT, p-p'-DDE and p,p'-TDE (DDD) expressed as DDT)		
	Dicofol			
	Dieldrin (see Aldrin)			

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	Pesticides in Fruits & Vegetable, Cereals, Beverages, Milk & Products	Endosulphan (All Isomers, Sum Of Alpha- And Beta-Isomers And Endosulphansulphate Expressed As Endosulphan)	TUV/03/SOP/014 Issue No. 02, Issue Date: 29/05/2012 AOAC 2007.01 (19 th Edition), TUV/03/SOP/035 Issue No. 02, Issue Date: 22/06/2012,	
		Endrin	TUV/03/SOP/085 Issue No. 01, Issue Date: 20/10/2014	
		HCH (sum of isomers, except the gamma isomer)		
		Heptachlor (Sum Of Heptachlor And Heptachlor Epoxide Expressed As Heptachlor)		
		Lindane (gamma-HCH)		
		Organophosphorus (OP)	TUV/03/SOP/014 Issue No. 02, Issue Date: 29/05/2012 AOAC 2007.01 (19 th Edition), TUV/03/SOP/035 Issue No. 02, Issue Date: 22/06/2012,	0.005 mg/kg to 1000 mg/kg
		4-bromo-2-chlorophenol (metabolite of Profenophos)	TUV/03/SOP/085 Issue No. 01, Issue Date: 20/10/2014	
		Acephate		
		Chlorfenvinphos		
		Chlorpyriphos		
	Chlorpyriphos methyl			
	Diazinon			

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	Pesticides in Fruits & Vegetable, Cereals, Beverages, Milk & Products	Dichlorvos	TUV/03/SOP/014 Issue No. 02, Issue Date: 29/05/2012	0.005 mg/kg to 1000 mg/kg
		Dimethoate (Including Omethoate)	AOAC 2007.01 (19 th Edition), TUV/03/SOP/035 Issue No. 02, Issue Date: 22/06/2012,	
		Edifenphos	TUV/03/SOP/085 Issue No. 01, Issue Date: 20/10/2014	
		Ethion		
		Etrimphos		
		Fenitrothion		
		Fenthion (Fenthion And Its Oxigen Analogue, Their Sulfoxides And Sulfone Expressed As Parent)		
		Iprobenphos		
		Malathion (Sum Of Malathion And Malaaxon Expressed As Malathion)	TUV/03/SOP/014 Issue No. 02, Issue Date: 29/05/2012	
		Methamidophos	AOAC 2007.01 (19 th Edition), TUV/03/SOP/035 Issue No. 02, Issue Date: 22/06/2012,	
		Monocrotophos	TUV/03/SOP/085 Issue No. 01, Issue Date: 20/10/2014	
		Omethoate (refer to Dimethoate)		
		Oxydemeton methyl (sum of oxydemeton methyl and demeton-S-methylsulfone expressed as oxydemeton methyl)		

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	Pesticides in Fruits & Vegetable, Cereals, Beverages, Milk & Products	Parathion ethyl	TUV/03/SOP/014 Issue No. 02, Issue Date: 29/05/2012	0.005 mg/kg to 1000 mg/kg
		Parathion methyl (sum of Parathion methyl and paraoxon methyl expressed as Parathion methyl)	AOAC 2007.01 (19 th Edition), TUV/03/SOP/035 Issue No. 02, Issue Date: 22/06/2012, TUV/03/SOP/085 Issue No. 01, Issue Date: 20/10/2014	
		Phenthoate		
		Phorate (sum of phorate, its oxygen analogue and their sulfones expressed as phorate)		
		Phosalone		
		Phosphamidon		
		Pirimiphos-methyl		
		Profenophos		
		Propetamphos		
		Quinalphos		
		Temephos		
		Thiometon		
		Triazophos		

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	Pesticides in Fruits & Vegetable, Cereals, Beverages, Milk & Products	Synthetic Pyrethroids (SP)	TUV/03/SOP/014 Issue No. 02, Issue Date: 29/05/2012	0.005 mg/kg to 1000 mg/kg
		Allethrin and Bioallethrin	AOAC 2007.01 (19 th Edition), TUV/03/SOP/035 Issue No. 02, Issue Date: 22/06/2012,	
		Bifenthrin	TUV/03/SOP/085 Issue No. 01, Issue Date: 20/10/2014.	
		Cyfluthrin (including other mixtures of constituent isomers sum of isomers)		
		Cypermethrin (including other mixtures of constituent isomers sum of isomers)		
		Deltamethrin		
		Ethofenprox (Etofenprox)		
		Fenpropathrin		
		Fenvalerate&Esfenvalerate (sum of RR & SS, Rs and SR isomers)		
		Lambda-cyhalothrin		
		Permethrin (sum of isomers)		
		tau- Fluvalinate		
		Transfluthrin		

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	Pesticides in Fruits & Vegetable, Cereals, Beverages, Milk & Products	Triazines	TUV/03/SOP/014 Issue No. 02, Issue Date: 29/05/2012	0.005 mg/kg to 1000 mg/kg
		Atrazine	AOAC 2007.01 (19 th Edition), TUV/03/SOP/035 Issue No. 02, Issue Date: 22/06/2012,	
		Flufenzine	TUV/03/SOP/085 Issue No. 01, Issue Date: 20/10/2014.	
		Simazine		
		Acrylamino acid fungicides	TUV/03/SOP/014 Issue No. 02, Issue Date: 29/05/2012	0.005 mg/kg to 1000 mg/kg
			AOAC 2007.01 (19 th Edition), TUV/03/SOP/035 Issue No. 02, Issue Date: 22/06/2012, TUV/03/SOP/085 Issue No. 01, Issue Date: 20/10/2014.	
		Benalaxyl including other mixtures of constituent isomers including Benalaxyl-M (sum of isomers)		
		Metalaxyl&Metalaxyl-M		
		Oxycarboxin		
		Propanil		
	Carbamates	TUV/03/SOP/014 Issue No. 02, Issue Date: 29/05/2012	0.005 mg/kg to 1000 mg/kg	
	Bendiocarb	AOAC 2007.01 (19 th Edition), TUV/03/SOP/035 Issue No. 02, Issue Date: 22/06/2012,		
	Benfuracarb	TUV/03/SOP/085 Issue No. 01, Issue Date: 20/10/2014.		
	Benomyl (see carbendazim)			
	Carbaryl			

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	Pesticides in Fruits & Vegetable, Cereals, Beverages, Milk & Products	Carbofuran (sum of carbofuran and 3-hydroxy-carbofuran expressed as carbofuran)	TUV/03/SOP/014 Issue No. 02, Issue Date: 29/05/2012 AOAC 2007.01 (19 th Edition), TUV/03/SOP/035 Issue No. 02, Issue Date: 22/06/2012, TUV/03/SOP/085 Issue No. 01, Issue Date: 20/10/2014.	0.005 mg/kg to 1000 mg/kg
		Carbosulfan		
		Dazomet (Methylisothiocyanate resulting from the use of dazomet and metam)		
		Fenobucarb		
		Indoxacarb (sum of R and S isomers)		
		Iprovalicarb		
		Methomyl and Thiodicarb (sum of methomyl and thiodicarb expressed as methomyl)		
		Propoxur		
		Thiobencarb (Benthiocarb)		
		Thiodicarb (see Methomyl)		
	Pyrimidines	TUV/03/SOP/014 Issue No. 02, Issue Date: 29/05/2012 AOAC 2007.01 (19 th Edition), TUV/03/SOP/035 Issue No. 2, Issue Date: 22/06/2012, TUV/03/SOP/085 Issue No. 01, Issue Date: 20/10/2014.	0.005 mg/kg to 1000 mg/kg	
	Fenarimol			

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	Pesticides in Fruits & Vegetable, Cereals, Beverages, Milk & Products	Triazoles	TUV/03/SOP/014 Issue No. 02, Issue Date: 29/05/2012 AOAC 2007.01 (19 th Edition), TUV/03/SOP/035 Issue No. 02, Issue Date: 22/06/2012, TUV/03/SOP/085 Issue No. 01, Issue Date: 20/10/2014.	0.005 mg/kg to 1000 mg/kg
		Cyazofamid		
		Bitertanol		
		Difenoconazole		
		Flusilazole		
		Hexaconazole		
		Myclobutanil		
		Paclobutrazol		
		Penconazole		
		Propiconazole		
		Tebuconazole		
		Triadimefon		
		Triadimenol		
		Imidazole		
	Fenamidone			
	Iprodione			
	Oxazole	TUV/03/SOP/085 Issue No. 01, Issue Date: 20/10/2014.	0.005 mg/kg to 1000 mg/kg	
	Famoxadone			

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	Pesticides in Fruits & Vegetable, Cereals, Beverages, Milk & Products	Phthalimide	TUV/03/SOP/014 Issue No. 02, Issue Date: 29/05/2012	0.005 mg/kg to 1000 mg/kg
		Captafol	AOAC 2007.01 (19 th Edition), TUV/03/SOP/05 Issue No. 02, Issue Date: 22/06/2012,	
		Captan	TUV/03/SOP/085 Issue No. 01, Issue Date: 20/10/2014.	0.005 mg/kg to 1000 mg/kg
		Benzimidazole		
		Carbendazim (Including Benomyl)		
		Thiophanate-methyl		
		Nicotinoids	TUV/03/SOP/014 Issue No. 02, Issue Date: 29/05/2012 Based on AOAC 2007.01 19 th Edition	0.005 mg/kg to 1000 mg/kg
		Acetamiprid	TUV/03/SOP/035 Issue No. 02, Issue Date: 22/06/2012, TUV/03/SOP/085 Issue No. 01, Issue Date: 20/10/2014.	
		Clothianidin (see thiamethoxam)		
		Imidacloprid		
	Thiacloprid			
	Thiamethoxam (sum of thiamethoxam and clothianidin expressed as thiamethoxam)			

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	Pesticides in Fruits & Vegetable, Cereals, Beverages, Milk & Products	Morpholine	TUV/03/SOP/014 Issue No. 02, Issue Date: 29/05/2012	0.005 mg/kg to 1000 mg/kg
		Dimethomorph	AOAC 2007.01 (19 th Edition), TUV/03/SOP/035 Issue No. 02, Issue Date: 22/06/2012,	
		Tridemorph	TUV/03/SOP/085 Issue No. 01, Issue Date: 20/10/2014	
		Substituted Thiourea	TUV/03/SOP/014 Issue No. 02, Issue Date: 29/05/2012	
		Diafenthiuron	AOAC 2007.01 (19 th Edition), TUV/03/SOP/035 Issue No. 02, Issue Date: 22/06/2012,	
		Diuron (Diuron including all components containing 3,4-dichloroaniline moiety expressed as 3,4-dichloroaniline)	TUV/03/SOP/085 Issue No. 01, Issue Date: 20/10/2014.	
		Iodosulfuron-methyl (iodosulfuron-methyl including salts, expressed as iodosulfuron-methyl)		
		Isoproturon		
		Linuron		
		Lufenuron		
	Pencycuron			

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	Pesticides in Fruits & Vegetable, Cereals, Beverages, Milk & Products	Benzoylphenyl Urea	TUV/03/SOP/014 Issue No. 02, Issue Date: 29/05/2012	0.005 mg/kg to 1000 mg/kg
		Flufenoxuron	AOAC 2007.01 (19 th Edition), TUV/03/SOP/035 Issue No. 02, Issue Date: 22/06/2012,	0.005 mg/kg to 1000 mg/kg
		Strobilurin	TUV/03/SOP/085 Issue No. 01, Issue Date: 20/10/2014.	
		Azoxystrobin		
		Kresoxim methyl		
		Pyraclostrobin		
		Trifloxystrobin		
		Phenyl Pyrazole		0.005 mg/kg to 1000 mg/kg
		Fipronil (sum of fipronil + sulfone metabolite (MB46136) expressed as fipronil)		
		Chlorantraniliprole		
		Pyrazole	TUV/03/SOP/014 Issue No. 02, Issue Date: 29/05/2012	0.005 mg/kg to 1000 mg/kg
		Fenpyroximate	AOAC 2007.01 (19 th Edition), TUV/03/SOP/035 Issue No. 02, Issue Date: 22/06/2012,	0.005 mg/kg to 1000 mg/kg
		Nitrophenyl ether	TUV/03/SOP/085 Issue No. 01, Issue Date: 20/10/2014	
		Oxyfluorfen		
	Dinitroaniline			
	Pendimethalin			
	Trifluralin			

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	Pesticides in Fruits & Vegetable, Cereals, Beverages, Milk & Products	Anilide/acetanilide and chloroacetanilide	TUV/03/SOP/014 Issue No. 02, Issue Date: 29/05/2012 AOAC 2007.01 (19 th Edition), TUV/03/SOP/035 Issue No. 02, Issue Date: 22/06/2012, TUV/03/SOP/085 Issue No. 01, Issue Date: 20/10/2014	0.005 mg/kg to 1000 mg/kg
		Alachlor		
		Butachlor		
		Carboxin		
		Flufenacet (sum of all compounds containing the N fluorophenyl-N-isopropyl moiety expressed as flufenacet equivalent)		
		Metolachlor (with S-Metolachlor)	TUV/03/SOP/014 Issue No. 02, Issue Date: 29/05/2012 AOAC 2007.01 (19 th Edition), TUV/03/SOP/035 Issue No. 02, Issue Date: 22/06/2012,	
		Novaluron	TUV/03/SOP/085 Issue No. 01, Issue Date: 20/10/2014.	
		Miscellaneous		0.005 mg/kg to 1000 mg/kg
		Abamectin (sum of avermectin B1a, avermectinB1b and delta-8,9 isomer of avermectin B1a)		
		Azadirachtin		0.005 mg/kg to 1000 mg/kg
	Bifenazate			

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	Pesticides in Fruits & Vegetable, Cereals, Beverages, Milk & Products	Buprofezin	TUV/03/SOP/014 Issue No. 02, Issue Date: 29/05/2012	0.005 mg/kg to 1000 mg/kg
		Cartap hydrochloride	AOAC 2007.01 (19 th Edition), TUV/03/SOP/035 Issue No. 02, Issue Date: 22/06/2012,	
		Diflubenzuron	TUV/03/SOP/085 Issue No. 01, Issue Date: 20/10/2014.	
		Dithianon		
		Dodine		
		Enamectin Benzoate		
		Fenazaquin		
		Flubendiamide		
		Forchlorfenuron (CPPU)		
		Hexythiazox		
		Isoprothiolane		
		Mandipropamid		
		Metribuzin		
		Milbemectin (sum of MA4+8,9Z-MA4, expressed as milbemectin)		
		Oxadiazon		
		Propargite		
	Pyriproxyfen			

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	Pesticides in Fruits & Vegetable, Cereals, Beverages, Milk & Products	Spinosad (Sum of Spinosyn A+D)	TUV/03/SOP/014 Issue No. 02, Issue Date: 29/05/2012 AOAC 2007.01 (19 th Edition),	0.005 mg/kg to 1000 mg/kg
		Spiromesifen	TUV/03/SOP/035 Issue No. 02, Issue Date: 22/06/2012, TUV/03/SOP/085 Issue No. 01, Issue Date: 20/10/2014.	
		Trichlorfon		
		Tricyclazole		
		Chlorobenzilate		
		Formothion		
		Aldicarb		
		Aldicarb Sulphon		
		Aldicarb Sulphoxide		
		Fluchloralin		
		Sulfosulfuron		
		Ethoxysulfuron		
		Chlorimuron-ethyl		
		Diclofop-methyl		
		Pretilachlor		
	Methabenzthiazuron			

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	Pesticides in Fruits & Vegetable, Cereals, Beverages, Milk & Products	Imazethapyr	TUV/03/SOP/014 Issue No. 02, Issue Date: 29/05/2012	0.005 mg/kg to 1000 mg/kg
		Cyhalofop-butyl	AOAC 2007.01 (19 th Edition), TUV/03/SOP/035 Issue No. 02, Issue Date: 22/06/2012,	
		Triallate	TUV/03/SOP/085 Issue No. 01, Issue Date: 20/10/2014.	
		Anilophos		
		Fenoxyprop-p-ethyl		0.005 mg/kg to 1000 mg/kg
		Clodinafop-propargyl		
		Kitazin (Iprobenfos)		
		Cymoxanil		
		Quizalofop-ethyl		
		Chlorfenapyr		
		Carpropamid		
		Oxadiazyl		
		Pyrazosulfuron ethyl		
		Clomazone		
	Dithiocarbamates (Mancozeb, Maneb, Propineb, Metiram, Thiram, Zineb and Ziram collectively estimated as CS ₂)		0.05 mg/kg to 10000 mg/kg	

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	Pesticides in Fruits & Vegetable, Cereals, Beverages, Milk & Products	4-CPA (4 Chlorophenoxy Acetic Acid)		0.005 mg/kg to 10000 mg/kg
		Ametoctradin		
		Dinotefuran		
		Flonicamide (Sum of flonicamide, TNFG & TNFA)		
		Propamocarb (Sum of propamocarb and its salt expressed as propamocarb)		
		Pyridaben		
		Spirodiclofen		
		Tetraconazol		
		Copper Oxychloride (as Cu)	TUV/03/SOP/014 Issue No. 02, Issue Date: 29/05/2012	0.1 mg/kg to 100 mg/kg
		Hydrogen Cyanide	TUV/03/SOP/014 Issue No. 02, Issue Date: 29/05/2012	0.01 mg/kg to 10000 mg/kg
	Inorganic Bromide	TUV/03/SOP/091 Issue No. 01, Issue Date: 22/10/2014	2.5 mg/kg to 10000 mg/kg	
	Malic Hydrazide	TUV/03/SOP/014 Issue No. 02, Issue Date: 29/05/2012	0.005 mg/kg to 10000 mg/kg	
	Metasulfuron-methyl			

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	Pesticides in Fruits & Vegetable, Cereals, Beverages, Milk & Products	Methyl Chloro-phenoxy acetic acid (MCPA)		
		Pyrethrins		
20.	Fruits, Vegetable, Grapes, Pomegranates, Okra, Chilli, Rice & Soybean)	Dinocap (sum of dinocap isomers and their corresponding phenols expressed as dinocap) and Meptyldinocap	TUV/03/SOP/014 Issue No. 02, Issue Date: 29/05/2012	0.005 mg/kg to 10000 mg/kg
		Plant Growth Regulators	TUV/03/SOP/014 Issue No. 02, Issue Date: 29/05/2012	0.01 mg/kg to 1000 mg/kg
		Gibberellic acid		
		1-Naphthylacetic acid (alphanaphthyl acetic acid)		
		2,4-D (sum of 2,4-D and its esters expressed as 2,4-D)		
		6-Benzyl adenine		
		Mepiquat Chloride		
		Ethephon		
		Paraquat		
		Diquat	TUV/03/SOP/014 Issue No. 02, Issue Date: 29/05/2012	
		Chlormequat Chloride (CCC)		

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	Fruits, Vegetable, Grapes, Pomegranates, Okra, Chilly, Rice & Soybean)	Homobrassinolide		0.01 mg/kg to 1000 mg/kg
		Fosetyl-Al (sum fosetyl + phosphorous acid and their salts, expressed as fosetyl)		
		Uracil		
		Inorganic compound		
		Sulphur		0.5 mg/kg to 10000 mg/kg
		Hydrogen cyanamide (Cyanamide including salts expressed as cyanamide)		0.01 mg/kg to 10000 mg/kg
		Polar Compounds		
	Glufosinate-ammonium (sum of glufosinate, its salts, MPP and NAG expressed as glufosinate equivalents)		0.01 mg/kg to 1000 mg/kg	
	Glyphosate			
21.	Food Packaging	Overall Migration	TUV/03/SOP/043 Issue No. 02, Issue Date: 30/06/2012	1 mg/l to 50 mg/l
		Specific Migration –	TUV/03/SOP/049 Issue No. 02, Issue Date: 30/06/2012	1 µg/l to 50 µg/l
		Dimethyl phthalate	(Based on EPA 506, Ame.Jr of Food Technology 3(5):341-346, 2008)	
		Diethyl phthalate		

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	Food Packaging	Di-n-Butyl phthalate Benzyl butyl phthalate Bis -2 Ethyl hexyl adepate Bis -2 Ethyl hexyl phthalate Dioctyl phthalate	TUV/03/SOP/049 Issue No. 02, Issue Date: 30/06/2012 (Based on EPA 506, Ame.Jr of Food Technology 3(5):341-346, 2008)	
		Leachable metals - Lead	92/62/EC and, ASTM F- 963, EN -71-3	0.1 mg/l to 100 mg/l
		Arsenic		
		Mercury		
		Cadmium		
II.	POLLUTION & ENVIRONMENT			
1.	Environmental Testing Waste Products (Electronic Waste)	Lead Cadmium Mercury Hexavalent Chromium	TUV/03/SOP/027 Issue No. 02, Issue Date: 25/06/2012 (IEC62321 ED1 & Committee Draft 111/95/CDV) TUV/03/SOP/028 Issue No. 02, Issue Date: 12/05/2012 (IEC62321 ED1 & Committee Draft 111/95/CDV)	5 mg/kg to 1500 mg/kg 5 mg/kg to 1000 mg/kg 5 mg/kg to 1500 mg/kg 5 mg/kg to 1500 mg/kg

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	Environmental Testing Waste Products (Electronic Waste)	PBDE - Poly Bromodiphenyl ether (3-Bromodiphenyl ether, 4,4'-Dibromodiphenyl ether, 2,2',4,-Tribromodiphenyl ether, Decabromodiphenyl ether)	TUV/03/SOP/029 Issue No. 02, Issue Date: 12/06/2012 (IEC62321 ED1 & Committee Draft 111/95/CDV)	5 mg/kg to 1500 mg/kg
		PBB – Bromobiphenyl (4-Bromobiphenyl, 2,5-Dibromobiphenyl, 2,4,6-Tribromobiphenyl, 2,2',5,5'-Tetrabromobiphenyl, 2,2',4,5,5'-Pentabromobiphenyl, 2,2',4,4',6,6' Hexabromobiphenyl, Decabromobiphenyl)	TUV/03/SOP/029 Issue No. 02, Issue Date: 12/06/2012 (IEC62321 ED1 & Committee Draft 111/24)	
		PentaChloro Phenol	TUV/03/SOP/045 Issue No. 02, Issue Date: 30/06/2012 (EPA 8041a)	20 mg/kg to 500 mg/kg
		Ionic contaminants	TUV / 03/SOP /036 Issue No. 02, Issue Date: 22/06/2012 (Based on IPC-650manual)	0.1 µg/cm ² to 100 µg/cm ² Eq NaCl

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III. WATER				
1.	Drinking Water, Raw Water, Source Water, Packaged Drinking Water, Packaged Natural Mineral Water, Water for Food Processing Industries, Domestic Water, Irrigation Water, Distilled Water & Swimming Pool Water	Colour	IS 3025 (Part 4) / APHA (22 nd Edition)	0 to 70 Units
		Odour	IS 3025 (Part 5) / APHA (22 nd Edition)	Qualitative (Agreeable)
		Taste	IS 3025 (Part 7) / IS 3025 (Part 8) / APHA (22 nd Edition)	Qualitative (Agreeable)
		Turbidity	IS 3025 (Part 10) / APHA (22 nd Edition)	1 NTU to 500 NTU
		pH	IS 3025 Part 11 / APHA (22 nd Edition)	1 to 14
		Total Dissolved Solids	IS 3025 Part 16 / APHA (22 nd Edition)	10 mg/l to 1000 mg/l
		Total Suspended Solids	IS 3025 Part 17 / APHA (22 nd Edition)	1 mg/l to 1000 mg/l
		Calcium	TUV/03/SOP/005 Issue No. 02, Issue Date: 30/05/2012 (Based on APHA 3030)	0.05 mg/l to 1000 mg/l
		Magnesium	TUV/03/SOP/005 Issue No. 02, Issue Date: 30/05/2012 (APHA 3030)	0.05 mg/l to 1000 mg/l
		Total Hardness	IS 3025 (Part 21) APHA (22 nd Edition)	1 mg/l to 1000 mg/l

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	Drinking Water, Raw Water, Source Water, Packaged Drinking Water, Packaged Natural Mineral Water, Water for Food Processing Industries, Domestic Water, Irrigation Water, Distilled Water & Swimming Pool Water	Alkalinity	IS 3025 (Part 23) APHA (22 nd Edition)	1 mg/l to 1000 mg/l
		Chloride	IS 3025 (Part 32) APHA (22 nd Edition)	1 mg/l to 1000 mg/l
		Sulphate	IS 3025 (Part 24) APHA (22 nd Edition)	1 mg/l to 1000 mg/l
		Oil & Grease	IS 3025 (Part 39) / APHA (22 nd Edition)	1 mg/l to 100 mg/l
		Nitrate	IS 3025 (Part 34) APHA (22 nd Edition)	0.1 mg/l to 100 mg/l
		Fluoride	IS 3025 (Part 60) / APHA (22 nd Edition)	0.001 mg/l to 1000 mg/l
		Phenolic Substances / Compounds	IS 3025 (Part 43), APHA (22 nd Edition)	0.001 mg/l to 1 mg/l
		Cyanide	IS 3025 (Part 27) / APHA (22 nd Edition)	0.001 mg/l to 100 mg/l
		Nitrite	IS 3025 (Part 34) / APHA (22 nd Edition)	0.002 mg/l to 100 mg/l
		Borate/Boron	IS 13428 / IS 3025 (Part 57) APHA (22 nd Edition)	0.01 mg/l to 50 mg/l
		Residual Free Chlorine	IS 3025 (Part 26) / APHA (22 nd Edition)	0.1 mg/l to 100 mg/l
		Anionic Surface active agents	IS 13428: 2005	0.02 mg/l to 100 mg/l

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	Drinking Water, Raw Water, Source Water, Packaged Drinking Water, Packaged Natural Mineral Water, Water for Food Processing Industries, Domestic Water, Irrigation Water, Distilled Water & Swimming Pool Water	Sulphide	IS 3025 (Part 29)	0.1 mg/l to 100 mg/l
		Ammonia (Ammoniacal nitrogen)	IS 3025 (Part 34)/ APHA (22 nd Edition)	0.1 mg/l to 100 mg/l
		Chloramines	IS 3025 (Part 26)/ APHA (22 nd Edition)	0.1 mg/l to 100 mg/l
		Sodium	TUV/03/SOP/005 Issue No. 02, Issue Date: 30/05/2012	0.05 mg/l to 500 mg/l
		Potassium	(Based on APHA 3030)	0.1 mg/l to 500 mg/l
		Aluminium		0.01 mg/l to 100 mg/l
		Boron		0.05 mg/l to 100 mg/l
		Iron		0.05 mg/l to 100 mg/l
		Manganese		0.005 mg/l to 100 mg/l
		Copper		0.005 mg/l to 100 mg/l
		Zinc		0.005 mg/l to 100 mg/l
		Barium		0.005 mg/l to 100 mg/l
		Silver		0.005 mg/l to 100 mg/l
		Molybdenum (as Mo)		0.01 mg/l to 100 mg/l
		Arsenic		0.01 mg/l to 100 mg/l
		Cadmium		0.003 mg/l to 100 mg/l

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	Drinking Water, Raw Water, Source Water, Packaged Drinking Water, Packaged Natural Mineral Water, Water for Food Processing Industries, Domestic Water, Irrigation Water, Distilled Water & Swimming Pool Water	Chromium		0.01 mg/l to 100 mg/l
		Mercury		0.001 mg/l to 50 mg/l
		Nickel		0.01 mg/l to 100 mg/l
		Lead		0.01 mg/l to 100 mg/l
		Antimony		0.01 mg/l to 100 mg/l
		Selenium		0.005 mg/l to 100 mg/l
		Trihalomethanes a) Bromoform b) Dibromochloromethane c) Bromodichloromethane d) Chloroform	TUV/03/SOP/092 Issue No. 01, Issue Date: 22/10/2014	5 µg/l to 1000 µg/l
		Poly Aromatic Hydrocarbons (PAH)	TUV/03/SOP/025 Issue No. 02, Issue Date: 22/06/2012 (APHA 6440 & EPA-525.2)	0.02 mcg/l to 1000 mcg/l
		Acenaphthalene		
		Anthracene		
	Benzo(a)-anthracene			
	Benzo(a)-pyrene			
	Benzo(g,h,i)-pyrene			
	Benzo(k) fluoranthene			

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		Fluranthene		
		Fluorene		
		Indino(1,2,3-c,d) pyrene		
		Naphthalene		
		Phenanthrene		
		Acenaphthene		
		Benzo(b) fluoranthene		
		Dibenzo(a,h) anthracene		
		Pyrene		
	Poly Chlorinated Biphenyls (PCBs)		TUV/03/SOP/025 Issue No. 02, Issue Date: 30/05/2012 (Based on APHA 6440 & EPA-525.2)	0.02 mcg/l to 1000 mcg/l
	2 Chloro biphenyl			
	2,2,3,3,4,4,5,5,Octachloro biphenyl			
	2,2,3,3,4,4,5,5,6,Nonachloro biphenyl			
	2,2,3,3,4,4,5,5,6,6, Decachloro biphenyl			

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Drinking Water, Raw Water, Source Water, Packaged Drinking Water, Packaged Natural Mineral Water, Water for Food Processing Industries, Domestic Water, Irrigation Water, Distilled Water & Swimming Pool Water	2,2,3,3,6,6,Hexachloro biphenyl 2,2,3,4,5,5,6,Heptachloro biphenyl 2,2,4,4, Tetrachloro biphenyl 2,4,5, trichloro biphenyl 2,3,4,5,6, Pentachloro biphenyl 3,3,dichloro biphenyl	TUV/03/SOP/025 Issue No. 02, Issue Date: 30/05/2012 (Based on APHA 6440 & EPA-525.2)	0.02 mcg/l to 1000 mcg/l
2.	(Water from any source : Drinking Water Raw Water, Source Water, Packaged Drinking Water Packaged Natural Mineral Water, Water for Food Processing Industries, Domestic Water, Irrigation Water, Distilled Water)	Pesticides residues o,p DDT p,p DDT o,p DDD p,p DDD o,p DDE p,p DDE Lindane (γ-HCH) A – HCH β - HCH	TUV/03/SOP/025 Issue No. 02, Issue Date: 30/05/2012 (APHA 6440 & EPA-525.2)	0.01 µg/l to 100.0 µg/l

Laboratory	TUV India Private Limited, (Laboratory Division), Survey No. 2, Hissa No. 311 & 312, Village Sus, Tal-Mulshi, Pune, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	18.03.2015
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	(Water from any source : Drinking Water Raw Water, Source Water, Packaged Drinking Water Packaged Natural Mineral Water, Water for Food Processing Industries, Domestic Water, Irrigation Water, Distilled Water)	δ – HCH	TUV/03/SOP/025 Issue No. 02, Issue Date: 30/05/2012 (APHA 6440 & EPA-525.2)	0.01 μ g/l to 100.0 μ g/l
		Endosulphan Alpha		
		Endosulphan Beta		
		Alachlor		
		Butachlor		
		Aldrin		
		Dieldrine		
		Ethion		
		Phorate		
		Phoratesulphoxide		
		Phoratesulphone		
		Chlorpyrifos		
		Methyl Parathion		
		Malathion		
		Maloxon		
		2,4 – D		
	Atrazine			

Laboratory TUV India Private Limited, (Laboratory Division), Survey No. 2, Hissa No. 311 & 312, Village Sus, Tal-Mulshi, Pune, Maharashtra

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	(Water from any source : Drinking Water Raw Water, Source Water, Packaged Drinking Water Packaged Natural Mineral Water, Water for Food Processing Industries, Domestic Water, Irrigation Water, Distilled Water)	Monocrotophos Isoproturon	TUV/03/SOP/025 Issue No. 02, Issue Date: 30/05/2012 (APHA 6440 & EPA-525.2)	0.01 µg/l to 100.0 µg/l

-X-X-X-X-X-X-X-X-X-X-X-X-