

Laboratory **Dove Research & Analytics, Plot No. 298, Industrial Area, Phase-II, Panchkula, Haryana**

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

Certificate Number **TC-5978 (in lieu of T-2541, T-2542)** **Page 1 of 32**

Validity **31.07.2017 to 30.07.2019** **Last Amended on --**

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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CHEMICAL TESTING

I. DRUGS AND PHARMACEUTICALS				
A. RAW MATERIALS				
1.	Amlodipine Besilate	Identification	IP	Qualitative Test
		Water Content		0.01% to 10.00%
		RS (by HPLC)		0.01% to 10.00%
		Assay (by HPLC)		80.0% to 120.0%
2.	Amoxicillin Trihydrate	Assay (by HPLC)	IP	80.0% to 120.0%
		pH		1.00 to 14.00
		Heavy metals		Qualitative Test
		Sulphated Ash		0.05% to 1.0%
		Water		0.50% to 32.00%
3.	Ampicillin Trihydrate	Identification (By Chemical)	IP	Qualitative Test
		Assay (by HPLC)		80.0% to 120.0%
		pH		1.00 to 14.00
		Heavy metals		Qualitative Test
		Sulphated Ash		0.05% to 1.0%
		Water		0.50% to 32.0%

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4.	Ascorbic Acid	Assay (by titration)	IP	80.0% to 120.0%
5.	Bromhexine Hydrochloride	Identification	IP	Qualitative Test
		Sulphated Ash		0.05 % to 1.0 %
		Assay (by Potentiometric titration)		80.0 % to 120.0%
		Loss on drying		0.01% to 10.0%
6.	Caffeine	Identification (By IR)	IP	Qualitative Test
		Loss on drying		0.01% to 10.0%
		Assay (by HPLC)	IP	80.0% to 120.0%
7.	Cefixime Trihydrate	Identification	IP	Qualitative Test
		Sulphated Ash		0.05% to 1.0%
		Assay (by HPLC)		80.0% to 120.0%
		Water		0.50% to 32.0%
8.	Cetirizine Hydrochloride	Identification	IP	Qualitative Test
		Loss on drying		0.01% to 10.0%
		Assay (by Potentiometric titration)		80.0% to 120.0%
		Sulphated Ash		0.05% to 1.0%
9.	Chlorpheniramine Maleate	Identification (By IR)	IP	Qualitative Test
		pH		1.0 to 14.0
		Sulphated Ash		0.05% to 1.0%

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		Assay (by Potentiometric titration)	IP	80.0% to 120.0%
		Loss on drying		0.01% to 10.00%
10.	Clotrimazole	Assay (by titration)	IP	80.0% to 120.0%
		Identification (By IR)		Qualitative Test
		Sulphated Ash		0.05 % to 1.0%
		Loss on drying		0.01% to 10.0%
11.	Citric Acid Monohydrate	Assay (by titration)	IP	80.0% to 120.0%
		Water		0.50% to 32.0%
12.	Diclofenac Sodium	Assay (by Potentiometric titration)	IP	80.0% to 120.0%
		Related Substances (by HPLC)		0.01% to 10.0%
		Loss on drying		0.01% to 10.0%
13.	Domperidone	Assay (by titration)	IP	80.0% to 120.0%
		Related Substances (by HPLC)		0.01% to 10.0%
		Loss on drying		0.01% to 10.0%
14.	Guiaphenesin	Assay (by Titration)	IP	80.0% to 120.0%
		Sulphated Ash		0.05% to 1.0%
		Related Substance (by HPLC)		0.01%to 10.0%
		Loss on drying		0.01% to 10.00%

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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
15	Metformin HCl	Identification	IP	Qualitative Test
		Assay (by titration)		80.0% to 120.0%
		Sulphated Ash		0.05% to 1.0%w/w
		Loss on drying		0.01% to 10.00%
16.	Nicotinamide	Assay (by titration)	IP	70.0% to 130.0%
		Loss on drying		0.1%to 10.0%
17.	Ofloxacin	Assay (by titration)	IP	80.0% to 120.0%
		Loss on drying		0.01% to 10.00%
18.	Paracetamol	Identification	IP	Qualitative test
		Sulphated Ash		0.05% to 1.0%
		Assay by titration		80.0% to 120.0%
		Loss on drying		0.01% to 10.00 %
19.	Povidone iodine	Assay (by titration)	IP	80.0%to 120.0%
		Loss on drying		0.01% to 10.00%
20.	Pyridoxine HCl	Identification (by Chemical)	IP	Qualitative Test
		Sulphated Ash		0.05% to 1.0%
		Loss on drying		0.01% to 10.00%
		Assay (by titration)		80.0% to 120.0%

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21.	Riboflavin	Assay	IP	80.0% to 120.0%
		Loss on drying		0.01% to 10.00%
22.	Riboflavin sod. Phosphate	Assay	IP	50.0% to 100.0%
		Loss on drying		0.01% to 10.00 %
23.	Terbutaline Sulphate	Identification	IP	Qualitative Test
		RS (by HPLC)		0.01% to 10.0%
		Loss on drying		0.01% to 10.0%
		Assay (by titration)		80.0% to 120.0%
24.	Tinidazole	Assay (by titration)	IP	80.0% to 120.0%
		Loss on drying		0.01% to 10.0%
25.	Zinc sulphate	Assay (by titration)	IP	80.0% to 120.0%
B	TABLETS			
1.	Aceclofenac tablets	Assay (by HPLC)	IP	70.0% to 130.0%
		Dissolution		15.0% to 100%
2.	Aciclovir Dispersible Tablets	Assay (by UV)	IP	70.0% to 130.0%
		Guanine (by TLC)		Qualitative Test
3.	Aciclovir Tablets	Assay by UV	IP	70.0% to 130.0%
		Guanine (by TLC)		Qualitative Test
		Related Substances (by TLC)		Qualitative Test

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4.	Albendazole Tablets	Assay (by Titration)	IP	70.0 to 130.0%
5.	Allopurinol Tablets	Assay (by UV)	IP	70.0% to 130.0%
		Disintegration		1.00 min to 30min
6.	Alprazolam Prolonged-release Tablets	Assay (by HPLC)	IP	70.0% to 130.0%
		Dissolution		15.0% to 100%
7.	Alprazolam Tablets	Assay (by HPLC)	IP	70.0% to 130.0%
		Dissolution		15.0% to 100%
		Uniformity of Content		65.0% to 120.0%
8.	Amlodipine Tablet	Assay (by HPLC)	IP	70.0 % to 130.0%
		Dissolution		15.00 % to 100%
		Uniformity of Content		65.0% to 120.0%
9.	Amoxicillin Trihydrate tablets	Assay (by HPLC)	IP	70.0% to 130.0%
10.	Amoxycilin trihydrate and Potassium clavulanate Tablets	Amoxycillin Assay by HPLC	IP	70.0% to 130.0%
		Dissolution		15.0% to 100%
		Potassium clavulanate Assay by HPLC		70.0% to 130.0%
11.	Ascorbic Acid tablets	Assay (by titration)	IP	70.0% to 130.0%
		Disintegration Test		1.00 min to 30.00 min

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12.	Atenolol tablets	Assay (by titration)	IP	70.0% to 130.0%
13.	Atorvastatin calcium Tablets IP	Assay (by HPLC)	IP	70.0% to 130.0%
		Related Substance (by HPLC)		0.01% to 10.0%
		Dissolution		15.0% to 100%
		Uniformity of Content		65.0% to 120.0%
14.	Azithromycin Tablets	Assay (by HPLC)	IP	70.0% to 130.0%
		Related Substances (by HPLC)		0.01% to 10.0%
		Dissolution		15.0% to 100%
15.	Cefixime Tablets	Assay (by HPLC)	IP	70.0% to 130.0%
		Dissolution		15.0% to 100%
16.	Cefpodoxime proxetil Tablets	Assay (by HPLC)	IP	70.0% to 130.0%
		Dissolution		15.0% to 100%
17.	Cetirizine tablets	Assay (by HPLC)	IP	70.0% to 130.0%
		Dissolution		15.0% to 100%
18.	Chlorpromazine tablets	Assay (by UV)	IP	70.0% to 130.0%
		Related Substances (by TLC)		Qualitative Test
		Uniformity of Content		60.0% to 120.0%
19.	Chlorthalidone Tablet	Assay (by UV)	IP	70.0% to 130.0%
		Related Substances (by TLC)		Qualitative Test

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20.	Ciprofloxacin Tablet	Assay (by HPLC)	IP	70.0% to 130.0%
		Dissolution		15.00% to 100%
21.	Co-trimoxazole tablets	Assay Trimethoprim and Sulphamethoxazole (by HPLC)	IP	70.0% w/w to 130.0% w/w
22.	Diclofenac gastro-resistant tablet	Assay (by HPLC)	IP	70.0% to 130.0%
		Related Substances (by HPLC)		0.01% to 10.0%
23.	Diclofenac prolonged release tablet	Assay (by HPLC)	IP	70.0% to 130.0%
		Related Substances (by HPLC)		0.01% to 10.0%
24.	Diclofenac Sodium tablets	Assay by UV	IP	70.0% to 130.0%
25.	Domperidone Tablets	Assay (by HPLC)	IP	70.0% to 130.0%
		Related Substance (by HPLC)		0.01% to 10.0%
		Dissolution		15.0% to 100%
26.	Enalapril maleate Tablets	Assay (by HPLC)	IP	70.0% to 130.0%
		Dissolution		15.0% to 100%
27.	Ferrous fumarate Tablets	Assay	IP	70.0% to 130.0%
		Disintegration Time		1.00 min to 30.00 min

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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
28.	Fluconazole Tablets	Assay (by HPLC)	IP	70.0% to 130.0%
		Dissolution		15.0% to 100%
29.	Fluoxetine Tablets	Assay (by HPLC)	IP	70.0% to 130.0%
		Related Substances (by HPLC)		0.01% to 10.0%
		Dissolution		15.0 % -100%
30.	Folic acid tablets	Assay (by HPLC)	IP	70.0% to 130.0%
		Related Substances (by HPLC)		Qualitative test
		Hydrolysis products		Qualitative test
		N-(4-aminobenzyl)L-glutamic acid 4-amino benzoic acid		Qualitative test
31.	Frusemide Tablets	Assay (by UV)	IP	70.0 % to 130.0%
		Dissolution		15.0 % -100%
32.	Hydrochlorothiazide and Losartan Potassium Tablets	Related Substances (by HPLC)	IP	0.01% to 10.0%
33.	Hydrochlorothiazide Tablets	Assay (by UV)	IP	70.0% to 130.0%
		Related Substances (by TLC)		Qualitative Test
		Dissolution		15.0 % -100%

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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
34.	Imipramine Tablets	Assay (by UV)	IP	70.0% to 130.0%
		RS (by TLC)		Qualitative test
		Uniformity of Content		65.0% to 120.0%
		Inorganic Nitrates (by TLC)		Qualitative test
35.	Lithium Carbonate Prolonged-release Tablets	Assay (by Titration)	IP	70.0% to 130.0%
36.	Lithium Carbonate Tablets	Assay (by Titration)	IP	70.0 % to 130.0%
		Dissolution		15.0% to 100%
37.	Lorazepam Tablets	Assay (by UV)	IP	70.0% to 130.0%
		Related Substances (by TLC)		Qualitative test
		Dissolution		15.00 %to100%
		Uniformity of Content		60.0% to 120.0%
38.	Losartan potassium and Amlodipine Tablets	Assay (by HPLC)	IP	70.0 to 130.0%
		Dissolution		15.0 % to100%
		Uniformity of Content		65.0% to 120.0%
39.	Losartan Potassium Tablets	Assay (by HPLC)	IP	70.0% to 130.0%
40.	Metformin HCl tablets	Assay (by UV)	IP	70.0% to 130.0%
		Dissolution		15.0% to 100%
		Related Substances		0.01% to 10.0%

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		(by HPLC) (a) Dicyanamide Any other impurity		
41.	Metoclopramide Tablets	Assay by UV	IP,	70.0% to 130.0%
		Related Substances (by TLC)		Qualitative Test
		Uniformity of Content		65.0% to 120.0%
42.	Nebivolol Tablet	Assay (by HPLC)	IP	70.0% to 130.0%
		Dissolution		15.0% to 100%
		Uniformity of Content		65.0% to 120.0%
43.	Nitrofurantoin Tablets	Assay (by UV)	IP	70.0% to 130.0%
		Related Substance (by TLC)		Qualitative test
44.	Ofloxacin tablets	Assay (by HPLC)	IP	70.0% to 130.0%
		Dissolution		15.0% to 100%
45.	Ondansetran HCl Tablets	Assay (by HPLC)	IP	70.0% to 130.0%
		Related Substances (by HPLC)		0.01% to 10.0%
46.	Ornidazole Tablets	Assay (by Chemical analysis)	IP	70.0% to 130.0%
		Related Substance (by HPLC)		0.01% to 10.0%
		Dissolution		15.0% to 100%
47.	Pantoperazole sustained release tablets	Assay (by HPLC)	IP	70.0% to 130.0%

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48.	Paracetamol tablets	Assay (by UV)	IP	70.0% to 130.0%
		Dissolution		15.0% to 100%
49.	Phenobarbitone Sodium Tablets	Assay	IP	70.0% to 130.0%
50.	Phenobarbitone Tablets	Assay	IP	70.0% to 130.0%
		Disintegration		1.0 in to 30.00 min
51.	Phenytoin Tablets	Assay (by UV)	IP	70.0 % to 130.0%
52.	Promethazine Theoclate Tablets	Assay (by UV)	IP	70.0% to 130.0%
		Related Substances (by TLC)		Qualitative test
53.	Rabeperazole sodium tablets	Assay (by HPLC)	IP	70.0 % to 130.0%
		Dissolution		15.0 % to 100%
		Uniformity of Content		65.0% to 120.0%
54.	Tinidazole tablets	Assay (by UV)	IP	70.0% to 130.0%
55.	Verapamil Tablets	Assay by UV	IP	70.0% to 130.0%
56.	Zinc Sulphate tablets	Assay by titration	IP	70.0% to 130.0%
C.	CAPSULES			
1.	Amoxicillin capsules	Assay (by HPLC)	IP	70.0% to 130.0%
		Dissolution		15.0% to 100%
2.	Ampicillin capsules	Assay (by HPLC)	IP	70.0% to 130.0%
		Dissolution		15.0% to 100%

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3.	Azithromycin Capsules	Assay by HPLC	IP	70.0% to 130.0%
		Related Substances (by HPLC) (a) Azithromycin Impurity A (b) Sum of all impurities		0.01% to 10.0%
		Related Substances (by TLC)		Qualitative test
		Dissolution		15.0% to 100%
4.	Fluconazole Capsules	Assay (by HPLC)	IP	70.0% to 130.0%
		Dissolution		15.0% to 100%
5.	Fluoxetine HCl Capsules	Assay (by HPLC)	IP	70.0% to 130.0%
		Related Substances (by HPLC)		0.01% to 10.0%
		Dissolution		15.0% to 100%
6.	Omeprazole capsules	Assay (by HPLC)	IP	70.0% to 130.0%
		Dissolution		15.00 % -100%
D.	ORAL SUSPENSION / SYRUP / SOLUTION			
1.	Albendazole Oral Suspension	Assay (by HPLC)	IP	70.0% to 130.0%
		Related Substances (by HPLC)		0.01 % to 10.00%
2.	Amoxicillin oral suspension	Assay (by HPLC)	IP	70.0 % to 130.0%
3.	Azithromycin oral suspension	Assay (by HPLC)	IP	70.0 % to 130.0%
4.	Cefpodoxime proxitil oral suspension	Assay (by HPLC)	IP	70.0 % to 130.0%

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5.	Co-trimoxazole Oral suspension	Assay a. Trimethorprim (by UV) b. Sulphamethoxazole (by Photometric)	IP	70.0% to 130.0%
6.	Glycerin	Identification A by IR Acidity or alkalinity Heavy Metals Iron Chloride Sulphate Aldehydes & reducing substances Ester (by titration) Ethylene glycol & RS Sugars Sulphated Ash Assay (by titration) n	IP	Qualitative Test Qualitative Test Qualitative Test Qualitative Test Qualitative Test Qualitative Test Qualitative Test Qualitative Test Qualitative Test Qualitative Test 0.05% – 1.00 % 70.0 % to 130.0%
7.	Hydrogen Peroxide solution	Assay (by titration)	IP	20.8 % to 33.6%
8.	Metoclopramide Syrup	Assay (by UV)	IP	70.0 % to 130.0%
9.	Metronidazole Benzoate Oral suspension	Assay potentiometrically	IP	70.0 % to 130.0%
10.	Ondesteron syrup	Assay (by HPLC)	IP	70.0 % to 130.0%

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11.	Paracetamol Oral Suspension	Assay (by HPLC)	IP	70.0% to 130.0%
		Related Substances (by HPLC) (a) 4-amino phenol (b) 4-chloroacetanilide (c) Any other impurity		0.01 % to % 10.0%
12.	Paracetamol Paediatric Oral Suspension	Assay (by HPLC)	IP	70.0 % to 130.0%
		Related Substances (by HPLC) (a) 4-amino phenol (b) 4-chloroacetanilide (c) Any other impurity		0.01 % to 10.0%
13.	Paracetamol syrup	Assay by HPLC	IP	70.0 % to 130.0%
14.	Povidone Iodine ointment	Assay (by Titration)	IP	70.0% to 130.0%
15.	Povidone Iodine Solution	Assay (by Titration)	IP	70.0% to 130.0%
16.	Promethazine Syrup	Assay (by UV)	IP	70.0% to 130.0%
17.	Salbutamol Syrup	Assay (by UV)	IP	70.0 % to 130.0%
18.	Sodium valproate oral suspension	Assay (by Titration)	IP	70.0% to 130.0%

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E. INJECTIONS / INFUSIONS				
1.	Amoxicillin injection	Assay (by HPLC)	IP	70.0% to 130.0%
2.	Ceftriaxone Sodium injection	Assay (by HPLC)	IP	70.0% to 130.0%
3.	Cefuroxime sodium injection	Assay by HPLC	IP	70.0% to 130.0%
4.	Diclofenac sodium injection	Assay by HPLC	IP	70.0% to 130.0%
5.	Meropenem Injection	Sodium content by AAS	IP	5.0% to 15.0%
F. CREAMS / OINTMENT / GEL				
1.	Aciclovir Cream	Assay (by UV)	IP	70.0% to 130.0%
		Guanine (by TLC)		Qualitative Test
2.	Clotrimazole cream / gel	Assay (by HPLC)	IP	70.0 % to 130.0%
3.	Lignocaine Gel	Assay (by titration)	IP	70.0 % to 130.0%
G. OPHTHALMIC / NASAL PREPARATIONS				
1.	Ofloxacin Ophthalmic solution	Assay (by HPLC)	IP	70.0 % to 130.0%

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H.	POWDERS			
1.	Oral Rehydration Salts (ORS powder)	Total sodium (by Flame photometer)	IP	70.0 % to 130.0%
		Total potassium (by Flame photometer)	IP	70.0% to 130.0%
		Total chloride (by titration)	IP	70.0 % to 130.0%
		Total citrate (by titration)	IP	70.0 % to 130.0%
		Dextrose (by Polarimeter)	IP	70.0 % to 130.0%
II.	WATER			
1.	Purified / Raw/ Drinking Water Testing (Chemical)	Acidity or Alkalinity	IP	Qualitative Test
		Ammonium	IP	Qualitative Test
		Calcium and Magnesium	IP	Qualitative Test
		Heavy metals	IP	Qualitative Test
		Chlorides	IP	Qualitative Test
		Nitrates	IP	Qualitative Test
		Sulphates	IP	Qualitative Test
		Oxidisable substances	IP	Qualitative Test
Aluminum	IP	Qualitative Test		
2.	Water for injection / Sterile water for injection	Acidity or alkalinity	IP	Qualitative Test
		Ammonium		Qualitative Test
		Calcium & magnesium		Qualitative Test
		Heavy metals		Qualitative Test
		Chlorides		Qualitative Test
		Nitrates		Qualitative Test
		Sulphates		Qualitative Test
		Aluminum		Qualitative Test

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III.	FOOD AND AGRICULTURAL PRODUCT			
A.	BAKERY AND CONFECTIONERY PRODUCTS			
1.	Biscuits	Moisture content	IS 12711	0.5 g/100g to 5.0g/100g
		Acid insoluble ash	IS 12711	0.01g/100g to 0.05g/100g
		Total Ash	IS 12711	0.1 g/100g to 1.5g/100g
		Acidity of extracted fat as oleic acid	IS 12711	0.2 g/100g to 1.2g/100g
		Protein	IS 7219	0.2 g/100g to 25g/100g
		Fat	IS 12711	0.1/100g to 50g/100g
		Appearance	FSSAI MANUAL 4	Qualitative (Present/Absent)
		Taste & Odour	FSSAI MANUAL 4	Qualitative (Present/Absent)
		Flavor	FSSAI MANUAL 4	Qualitative (Present/Absent)
		Baking	FSSAI MANUAL 4	Qualitative (Present/Absent)
		Foreign Matter	FSSAI MANUAL 4	Qualitative (Present/Absent)
2.	Bread Rusk	Alcoholic acidity	IS 12711	0.01 g/100g to 1.0g/100g
		Moisture	IS 12711	1.0 g/100g to 25 g /100g
		Total Ash	IS 12711	0.1 g/100g to 5.0 g/100g
		Total Fat	IS 12711	1.0 g/100g to 30.0g/100g
		Acid Insoluble Ash	IS 12711	0.01 g/100g to 0.5 g/100g
		Acidity of extracted fat as oleic acid	IS 12711	0.1 g/100g to 2.0 g /100g
3.	Cake	Alcoholic Acidity as H ₂ SO ₄	IS 12711	0.1 g/100g to 5.0 g /100g
		Moisture	IS 9712, IS 1011	15 g/100g to 25 g /100g
		Total solid content	IS 12711	1.0 g/100g to 30.0g /100g
		Total Ash	IS 12711	0.01 g/100g to 1.0g/100g
		Total Fat	IS 12711	1.0 g/100g to 12.0 g/100g
Acid Insoluble Ash	IS 12711	0.01 g/100g to 0.1 g/100g		

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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
		Acidity of extracted fat as oleic acid	IS 12711	0.1 g/100g to 2.0 g/100g
		Alcoholic Acidity as H ₂ SO ₄	IS 12711	0.1 g to 5.0 g /100 g
4.	Snacks, Extruded snacks and Namkeen	Moisture	IS 15271	0.02g/100g to 50g/100g
		Total Ash	IS 4684	0.02g/100g to 15g/100g
		Acid Insoluble Ash	IS 4684	0.01 g/100g to 5g/100g
		Acidity of extracted fat	IS 1011	0.02 g/100g to 5g/100g
		Peroxide value of extracted fat	IS 15271	0.5meq/kg to 50meq/kg
B.	Milk and Dairy Products			
1.	Milk	Total Solids	IS:1479 (Part-2), Clause 1.3.3 of FSSAI lab manual for Analysis of Milk & Milk product 1	5.0g/100g to 20.0g/100g
		Titration acidity as lactic acid	IS:1166, Clause 14.3 of FSSAI lab manual for Analysis of Milk & Milk product 1	0.1g/100g to 1.0 g/100g
		Fat	IS 1479 (Part-2), Clause 9.2 of FSSAI lab manual for Analysis of Milk & Milk product 1	0.1g/100g to 6.0 g/100g
		Solid Not Fat (SNF)	IS 1479 (Part-1), Clause 10.6 of FSSAI lab manual for Analysis of Milk & Milk product 1	0. 1g/100g to 6.0g/100g
		Cane sugar	Clause 1.2.1 of FSSAI lab manual for Analysis of Milk & Milk products 1	Qualitative (Present/Absent)
		Starch	Clause 1.2.2 of FSSAI lab manual for Analysis of Milk & Milk products 1	Qualitative (Present/Absent)

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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
		Urea	Clause 1.2.4 of FSSAI lab manual for Analysis of Milk & Milk products 1	Qualitative (Present/Absent)
		Sodium chloride	Clause 1.2.1 of FSSAI lab manual for Analysis of Milk & Milk products 1	Qualitative (Present/Absent)
		Total Nitrogen	IS 1479 (Part-2), Clause 9.2 of FSSAI lab manual for Analysis of Milk & Milk product 1	0.1g/100g to 5.00 g/100g
		Protein as (N * 6.38)	IS 7219, Clause 14.3 of FSSAI lab manual for Analysis of Milk & Milk products 1	0.1g/100g to 34 g/100g
2.	Condensed Milk	Fat	IS 11721, Clause 9.3 of FSSAI lab manual for analysis of milk and milk products 1	0.01g/100g to 15g/100g
		Titration acidity	IS 1166, Clause 14.3 of FSSAI lab manual for Analysis of Milk & Milk product 1	0.01g/100g to 5.00 g/100g
		Total Milk Solids	IS 1479 (Part-2), Clause 1.3.3 of FSSAI lab manual for Analysis of Milk & Milk product 1	0.01g/100g to 10g/100g
3.	Ice Cream	Total Fat	IS 2802	0.1g/100g to 30.0g/100g
		Total solids	IS 2802	0.1g/100g to 70.0g/100g
		Acidity as lactic acid	IS 2802	0.1g/100g to 1.0g/100g
4.	Paneer	Moisture content	IS 10484	1 g/100g to 80 g/100g
		Milk Fat	IS 10484	1 g/100g to 70 g/100g
		Titration Acidity	IS 10484	0.1g/100g to 5 g/100g

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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
5.	Ghee	Moisture Content	IS 3508	0.1g/100g to 0.5 g/100g
		BR Value at 40°C	IS 3508	40 to 44
		Acid value	IS 3508	0.10 to 2.0
		Free Fatty Acids	IS 548 (Part-I)	0.1 g/100gm to 0.3g/100gm
		Reichert Value	IS 3508	1 to 24
		Peroxide Value	IS 3508	0.5meq/Kg to 20 meq/kg
		Saponification Value	IS 3508	150 to 300
		Refractive Index at 40°C	IS 3508	1.4481 to 1.4491
		Polenskey Value	IS 3508	1.0 to 13
		Iodine Value	IS 3508	7.5 g/100g to 10 g/100g
	Acidity	IS 3508	0.1 g/100g to 1.5 g/100g	
C.	INFANT FOOD			
	Infant Foods	Moisture	IS 14433 (Part-1), Clause 10.2 of FSSAI lab manual for Analysis of milk and milk products 1	0.1 g/100g to 4.5 g/100g
		Total Ash	IS 11628, Clause 10.7of FSSAI lab manual for Analysis of milk and milk products 1	0.1 g/100g to 8.5 g/100g
		Acid Insoluble Ash	IS 11628, Clause 10.8 of FSSAI lab manual for Analysis of milk and milk products 1	0.01/100 g to 0.1 g/100g
		Fat	IS 11721, Clause 10.3of FSSAI lab manual for analysis of milk and milk products 1	1.0 g to 18.0 g /100gm

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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
D.	OIL , FATS AND FAT EMULSIONS			
1.	Mustard oil	Acid value	IS 548 (Part-I), Clause 11.0 of FSSAI lab manual for Analysis of oils & fats product 2	0.1 to 6.0
		Saponification Value	IS 548 (Part-I), Clause 9.0 of FSSAI lab manual for Analysis of oils & fats product 2	150 to 300
		Free Fatty Acid	IS 548 (Part-I), Clause 11.0 of FSSAI lab manual for Analysis of oils & fats product 2	0.1 g/100g to 0.3 g/100gm
		Moisture	IS 548 (Part-I), Clause 3.0 of FSSAI lab manual for Analysis of oils & fats product 2	0.05 g/100 g to 0.4 g/100g
		Peroxide Value	IS:548 (Part-I), Clause 38.0 of FSSAI lab manual for Analysis of oils & fats product 2	0.5meq/kg to 20meq/kg
		Refractive index at 40°C	IS:548 (Part-I), Clause 5.0 of FSSAI lab manual for Analysis of oils & fats product 2	1.33298 to 1.56999
		Iodine Value	IS:548 (Part-I), Clause 11.0 of FSSAI lab manual for Analysis of oils & fats product 2	76 to 112
		Reichert Value	IS:548 (Part-I), Clause 13.0 of FSSAI lab manual for Analysis of oils & fats product 2	1 to 28

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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
		Polenskey Value	IS:548 (Part-I), Clause 13.0 of FSSAI lab manual for Analysis of oils & fats product 2	1 to 20
E.	HERBS, SPICES AND OTHER CONDIMENTS			
1.	Cardamom, Chillies & Capsicum, Cinnamon, Cloves, Coriander, Cumin, Fennel, Fenugreek, Ginger, Mustard, Nutmeg, Pepper Black, Poppy, Safron, Ajwain, Mango powder, Garlic, Dried Mango Slices	Extraneous matter	IS 1797, Clause 2.0 of FSSAI lab Manual for Analysis of Spices and condiments products 7	0.001 g/100g to 10 g/100 g
		Insect damaged matter	IS 2322, Clause 2.0 of FSSAI lab Manual for Analysis of Spices and condiments products 7	0.001g/100g to 10 g/100g
		Empty and malformed Capsules	IS: 2322, Clause 2.0 of FSSAI lab Manual for Analysis of Spices and condiments products 7	1.0 g/100g to 20 g/100g
		Immature, Discoloured fruits and shrivelled capsule	IS 2443, Clause 2.0 of FSSAI lab Manual for Analysis of Spices and condiments products 7	0.5 g/100g to 20 g/100g
		Light seed/berries	IS 2443, Clause 2.0 of FSSAI lab Manual for Analysis of Spices and condiments products 7	0.01g/100g to 20g/100g
		Split fruits	IS 2443, Clause 2.0 of FSSAI lab Manual for Analysis of Spices and condiments products 7	0.01g to 20 g/100g
		Volatile oil	IS 1797, Clause 10.0 FSSAI Lab Manual for Analysis of Spices and condiments products 7	0.5 g/ml to 25 g/ml

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Dry Mango Powder	Acidity	IS 13242, Clause 11.0 FSSAI Lab Manual for Analysis of Spices and condiments products 7	0.05g/100g to 50g/100g
		Water Insoluble Ash	IS 1797	0.1g/100g to 10.0g /100g
		Total Ash on dry basis	IS 1797, Clause 4.0 of FSSAI lab Manual for Analysis of Spices and condiments products 7	1.0g/100g to 15.0g/100g
		Alcohol soluble extract	IS 1797, Clause 7.0 of FSSAI lab Manual for Analysis of Spices and condiments products 7	0.1 g to 20.0g /100g
		Cold water soluble extract	IS 1797, Clause 6.0 of FSSAI lab Manual for Analysis of Spices and condiments products 7	1.0 g to 40.0g /100g
		Crude fiber (dry basis)	IS 1797, Clause 11.0 of FSSAI lab Manual for Analysis of Spices and condiments products 7	1.0 to 30.0g /100g
		Salt as Sodium Chloride	IS 1797	1.0g to 20.0 g /100g
		Acid Insoluble Ash in dilute HCl on dry basis	IS 1797, Clause 5.0 of FSSAI lab Manual for Analysis of Spices and condiments products 7	1.0g to 5.0 g/100g
		Moisture Content	IS 1797, Clause 3.0 of FSSAI lab Manual for Analysis of Spices and condiments products 7	1g/100g to 20 g/100g
2.	Turmeric Powder	Starch (on Dry Basis)	IS 1797	40 g/100g to 60.0g/100g

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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
F.	TEA AND TEA PRODUCTS			
1.	Tea	Total Ash	IS 13854	0.5g/100g to 15g/100g
		Water soluble Ash	IS 13855	5.0g/100g to 60g/100g
		Acid Insoluble Ash	IS:13857	0.02g/100g to 5g/100g
		Moisture Content	IS 13854	0.1g/100g to 20g/100g
G.	ALCOHOLIC BEVERAGES			
1.	Alcoholic Beverages	Residue on evaporation	IS 3752	0.05g/100ml to 10g/100ml
		Alcohol content as ethyl alcohol content method - 02	IS 3752	5 g/100ml to 75 ml/100ml
		Total acidity	IS 3752	2 g/100ml to 100g/100ml
		Volatile acid	IS 3752	5 g/100ml to 100g/100ml
		Total ash	IS 3752	0.01g/100ml to 1g/100ml
H.	SALT			
1.	Iodised salt	Moisture	IS 7224, IS 253	0.01g/100g to 25g/100g
		Water insoluble matter	IS 7224, IS 253	0.02g/100g to 10g/100g
		Chloride content	IS 7224, IS 253	10g/100g to 99.8g/100g
		Iodine content	IS 7224, IS 253	5g/100g to 60g/100g
		Sulphate	IS 7224, IS 253	0.02g/100g to 5g/100g
		Magnesium	IS 7224, IS 253	0.01g/100g to 5g/100g

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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
I.	FRUITS & VEGETABLES PRODUCTS			
1.	Jam/Fruit Crushes, squashes, Fruit Syrups, Fruit Sharbatss, Murabas, Marmalade, Fruit Jelly	Total Soluble Solids	IS 5861 clause 1.6 of FSSAI lab manual for Analysis of fruit and vegetable 3	1.0% to 100.0%
		Acidity (As Citric acid/Acetic acid/lactic acid/L-Tartaric acid and Malic acid	IS 2860 clause 2.4 of FSSAI lab manual for Analysis of fruit and vegetable 3	0.1g/100g to 30 g/100g
		Moisture content	IS 2860 clause 4.1 of FSSAI lab manual for Analysis of fruit and vegetable 3	0.1/100g to 100 g/100g
		Acid insoluble ash	IS 2860 clause 5.3 of FSSAI lab manual for Analysis of fruit and vegetable 3	0.01g/100g to 1.5 g/100g
		Sulphur Dioxide	IS 4706 (Part -2) clause 17.7 of FSSAI lab manual for Analysis of fruit and vegetable 3	0.01g/100g to 30g/100g
2.	Pickles	Drained Weight	clause 18.1 of FSSAI lab manual for Analysis of fruit and vegetable 3 IS 3501	10.0% - 99.0%
		Sodium Chloride Content(as NaCL)	clause 18.2 of FSSAI lab manual for Analysis of fruit and vegetable 3 IS 3501	1g/100g - 12.0g/100g
		Acidity as Citric Acid, Acetic Acid	clause 18.3 of FSSAI lab manual for Analysis of fruit and vegetable 3 IS 3501	1g/100g -1.2g/100g

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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
3.	Tomato Ketchup/Tomato Sauces	Total Soluble Solids	clause 12.1 of FSSAI lab manual for Analysis of fruit and vegetable 3 IS 3882	1g/100g to 90g/100g
		Acidity (As Citric acid, Acetic Acid)	clause 12.2 of FSSAI lab manual for Analysis of fruit and vegetable 3 IS 3882/IS 2860	1g/100g to 1.5 g/100g
		Salt (As Nacl)	IS 2860	2g/100g to 4 g/100g
		pH	clause 15.2 of FSSAI lab manual for Analysis of fruit and vegetable 3 IS 3882	1 to 14
4.	Dehydrated Fruits & Vegetables products (onion seasoning powder)	Moisture content	IS 2860	0.1g/100g to 10 g/100g
		Total Ash	IS 1797, REAFF	0.1 to 5 g/100g
		Ash insoluble in Dil. HCl	IS 1797	0.1 to 5 g/100g
		Sulphur Dioxide	IS 4706 (Part-2)	0.1 to 300 g/100g
J.	CEREAL & CEREAL PRODUCTS			
1.	Maida	Moisture Content	IS:1009, Clause 8.1 of FSSAI lab manual for Analysis of fruit and vegetable 3	1.0g/100g to 13.0g/100g
		Total Ash , on dry basis	IS:1009-1979, Clause 8.2 of FSSAI lab manual for Analysis of fruit and vegetable 3	0.1g/100g to 0.7 g/100g
		Acid Insoluble ash , on dry basis	IS:1009, Clause 8.3 of FSSAI lab manual for Analysis of fruit and vegetable 3	0.01g/100g to 0.05g/100g

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		Alcoholic Acidity as H ₂ So ₄ in 90% Alcohol	IS:1009, Clause 8.5 of FSSAI lab manual for Analysis of fruit and vegetable 3	0.02g/100g to 2.0g/100g
2.	Wheat	Moisture Content	IS:1155, Clause 8.1 of FSSAI lab manual for Analysis of fruit and vegetable 3	1.0g/100g to 12.0g/100g
		Total Ash on Dry basis	IS:1155, Clause 8.2 of FSSAI lab manual for Analysis of fruit and vegetable 3	0.1g/100g to 0.7 g/100g
		Acid Insoluble ash, on Dry basis	IS:1155, Clause 8.3 of FSSAI lab manual for Analysis of fruit and vegetable 3	0.01g/100g to 0.05 g/100g
		Alcoholic Acidity as H ₂ So ₄ in 90% Alcohol	IS:1155, Clause 8.5 of FSSAI lab manual for Analysis of fruit and vegetable 3	0.02g/100g to 2.0 g/100g
K.	NUTRITIONAL VALUE			
1.	Biscuits . Bread Cacke , Milk and milk products , Poha	Protein content N * 6.25	IS 7219	0.50g/100g - 50.0g/100g
		Fat	IS 4684 IS 12711 IS 1479 (Part-2) IS 2802 IS 10484	0.02g/100g to 50.0g/100g
		carbohydrate	IS 1656	0.5g/100g to 99.5 g/100 g
		Energy	IS 14433 IS 9487	5kcal/100g to 900 kcal/100g

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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
<u>BIOLOGICAL TESTING</u>				
I.	WATER			
1.	Purified Water	Total Bacterial Count	USP, IP	≥ 1 cfu/ml ≥ 1 cfu/100 ml
		Total yeast & mould count	USP, IP	≥ 1 cfu/ml ≥ 1 cfu/100 ml
		Escherichia coli	USP, IP	Qualitative (Present/Absent per 100ml)
		Salmonella species	USP, IP	Qualitative (Present/Absent per 100ml)
		Pseudomonas aeruginosa	USP, IP	Qualitative (Present/Absent per 100ml)
		Staphylococcus Aureus	USP, IP	Qualitative (Present/Absent per 100ml)
2.	Water for Injection	Total Bacterial Count	USP, IP	≥ 1 cfu/ml ≥ 1 cfu/100 ml
		Total yeast & mould count	USP, IP	≥ 1 cfu/ml ≥ 1 cfu/100 ml
		Escherichia coli	USP, IP	Qualitative (Present/Absent per 100ml)
		Salmonella species	USP, IP	Qualitative (Present/Absent per 100ml)
		Pseudomonas aeruginosa	USP, IP	Qualitative (Present / Absent per 100ml)
		Staphylococcus Aureus	USP, IP	Qualitative (Present/ Absent per100ml)

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II.	DRUGS & PHARMACEUTICALS			
1.	Finished Products / Raw materials	Total Bacterial Count	IP, BP, USP	≥ 10 cfu/ml ≥ 10 cfu/g
		Total Yeast and Mould count	IP, BP, USP	≥ 10 cfu/ml ≥ 10 cfu/g
		Staphylococcus aureus	IP, BP, USP	Qualitative (Absent/Present per ml or g)
		Pseudomonas aeruginosa	IP, BP, USP	Qualitative (Absent/Present per ml or g)
		Escherichia coli	IP, BP, USP	Qualitative (Present / Absent per ml or g)
		Salmonella species	IP, BP, USP	Qualitative (Present / Absent per ml or g)
		Candida albicans	IP, BP, USP	Qualitative (Present / Absent per ml or g)
2.	ANTIBIOTICS			
a.	Raw Materials	Gentamycin Sulphate	IP	520 units/mg to 650 units/mg
		Spiramycin	IP	3700 units/mg to 4200 units/mg
b.	Finished Products	Erythromycin Stearate tablet	IP	70.0% to 130.00 % of labelled amount
		Gentamycin Sulphate eye drop	IP	70.0% to 130.00 % of labelled amount

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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
III.	FOOD AND AGRICULTURAL PRODUCTS			
I.	MILK AND DAIRY PRODUCTS			
a.	Pasteurized Milk	Total Plate count	IS : 5402	≥ 1cfu/ml
		E.Coli	IS 5887(Part-1)	≥ 1cfu/ml
b.	Sterilized Milk	Total Plate count	IS : 5402	≥ 1cfu/ml
c.	Sweetened condensed Milk	Total Plate count	IS : 5402	≥ 10cfu/gm
		E.Coli	IS 5887 (Part-1)	≥ 10cfu/gm
		Staphylococcus aureus	IS 5887 (Part- 8) (Sect.-1)	Present / Absent per ml
d.	Paneer	Total Plate count	IS : 5402	≥ 10cfu/gm
		Coliform	IS 5401 (Part-1) IS 5401 (Part-2)	≥ 10cfu/gm 2 to 10 MPN
		E. Coli	IS 5887 (Part-1)	≥ 10cfu/gm
		Staphylococcus aureus	IS 5887 (Part-8) (Section -1)	Present / Absent per g
		Yeast and Mould count	IS 5403	≥ 10cfu/gm
e.	Milk powder, Cream, Ice cream	Total Plate count	IS : 5402	≥ 10cfu/gm
		Coliform	IS 5401 (Part-1) IS 5401 (Part-2)	≥ 10cfu/gm 2 to 10 MPN
		E. Coli	IS 5887(Part-1)	≥ 10cfu/gm
f.	Cheese	Total Plate count	IS : 5402	≥ 10cfu/gm
		E. Coli	IS 5887 (Part-1)	≥ 10cfu/gm

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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
		Staphylococcus aureus	IS 5887 (Part-8) (Section-1)	Present / Absent per g
		Yeast and Mould count	IS 5403	≥ 10cfu/gm
2.	VEGETABLES AND VEGETABLE PRODUCTS			
a.	Frozen Vegetables	Total Plate Count	IS : 5402	≥ 10cfu/gm
3.	PICKLES	Mould Count	IS 5403	≥ 10cfu/gm
4.	BAKERY AND CONFECTIONARY PRODUCTS			
a.	Candied fruits/Sugars & Confectionery	Mould Count	IS 5403	≥ 10cfu/gm
5.	BEVERAGES (ALCOHOLIC / NON-ALCOHOLIC)			
a.	Carbonated Beverages	Total Plate Count	IS 5402	≥ 1cfu/ml
		Yeast and Mould Count	IS 5403	≥ 1 cfu /ml
		Coliform	IS 5401 (Part-1) IS 5401 (Part-2)	≥ 1cfu/ml
b.	Infant Foods	Bacterial Count	IS 5402	≥ 10cfu/gm
		Coliform Count	IS 5401 (Part-1) IS 5401 (Part-2)	≥ 10cfu/gm 2 to 10 MPN
		Yeast and Mould Count	IS 5403	≥ 10cfu/gm
		E. Coli	IS 5887 (Part-1)	≥ 10cfu/gm
		Staphylococcus aureus	IS 5887 (Part-8) (Section-1)	Present / Absent per g