

Laboratory **Azis Labs, M-43, Sector-III, Industrial Area, Pithampur, District: Dhar, Madhya Pradesh**

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

Certificate Number **TC-7374**

Page 1 of 22

Validity **06.06.2018 to 05.06.2020**

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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BIOLOGICAL TESTING

I.	WATER			
1.	Water-packaged drinking water	Detection of <i>Escherichia coli</i>	IS 15185:2016	Qualitative: Absent/present/250 ml
		Detection of <i>coliform bacteria</i>	IS 15185:2016	Qualitative: Absent/present/250 ml
		Staphylococcus aureus	IS 5887(part-2):1976, RA 2013	Qualitative: Absent/present/250 ml
		Pseudomonas aeruginosa	IS 13428:2005, RA-2014	Qualitative: Absent/present/250 ml
		Aerobic microbial count/ml at 22°C & 37°C	IS 5402:2012	≥1cfu/ml
		Yeast & mould	IS 5403:1999, RA-2013	Qualitative: Absent/present/250 ml
		Salmonella	IS 15187(part-3):1999-RA-2013	Qualitative: Absent/present/250 ml
2.	Water for Processed Food Industry	Coliform bacteria	IS 1622:1981 (RA2003)	1 MPN /100ml to 1600MPN/100ml
	a. Quality tolerance for Water for Processed Food Industry	Standard plate count	IS 1622:1981 (RA2003)	≥1cfu/ml
		Slime forming bacteria	IS 1622 : 1981 Amd.2003 (1-4)	Qualitative: Absent/present/ml
		E. coli	IS 5887 (Part 1) : 1976 (RA 2013)	Qualitative: Absent/present/ ml
		Coliform count	IS 5401 (Part 1) : 2012	≥1cfu/ml
		Yeast & mold count	IS 5403 : 1999, RA 2013	≥1cfu/ml
3.	Water –	Salmonella	APHA:23rd Ed 9260B	Qualitative: Absent/present

Laboratory **Azis Labs, M-43, Sector-III, Industrial Area, Pithampur, District: Dhar, Madhya Pradesh**

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

Certificate Number **TC-7374**

Page 2 of 22

Validity **06.06.2018 to 05.06.2020**

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
	Water for industrial purpose			
		Pseudomonas aeruginosa	APHA:23rd Ed 9213F APHA:23rd Ed 9213E	MPN=1.8-1600/100ml Absent/present in 100ml
		Heterotropic plate count	APHA:23rd Ed 9215	>1cfu/ml
		Total Coliforms/100ml	APHA:23rd Ed 9221B	1.8 MPN to1600 MPN/100
II.	FOOD AND AGRICULTURAL PRODUCTS			
1.	Food Products -Milk and Dairy products	Total plate count	IS 5402:2012 ISO 4833: 2003	≥10cfu/g ≥1cfu/ml
		Total Coliform count	IS 5401(part 1):2012 ISO 4832 : 2006	≥10cfu/g ≥1cfu/ml
		Yeast & mold count	IS 5403:1999, RA-2013 ISO 21527 : 2008	≥10cfu/g ≥1cfu/ml
		Enumeration of Escherichia coli	IS 5887(part 1):1976, RA-2013 (RA 2005) ISO16649 : 2008	≥10cfu/g ≥1cfu/ml
		Detection of Escherichia coli	IS (part 1):1976 (RA 2013) ISO16649 : 2008	Qualitative (present /absent/g/ml)
		Enumeration of coliform	IS 5401(part 1):2012	≥10cfu/g
		Detection of coliform	ISO4832 : 2006 IS 5401(part 1):2012	≥1cfu/ml Qualitative (present /absent/g/ml)
		Detection of Staphylococcus aureus	ISO4831 : 2006 IS 5887(part 8): 2002	Qualitative (present /absent/g/ml)
		Enumeration of Staphylococcus aureus	IS 5887(part 8): 2002	≥10cfu/g
		Detection of Bacillus	ISO 6888:1:1999 IS 5887 (Part 6) : 2012	≥1cfu/ml Qualitative: Absent/

Laboratory Azis Labs, M-43, Sector-III, Industrial Area, Pithampur, District: Dhar, Madhya Pradesh

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7374

Page 3 of 22

Validity 06.06.2018 to 05.06.2020

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
		cereus		present/ ml or gm
		Enumeration of Bacillus cereus	IS 5887 (Part 6) : 2012	Qualitative: Absent/ present/ ml or gm
		Detection of salmonella	IS 5887 (Part 3) : 1999	Qualitative: Absent/ present/ ml or gm
			ISO 65579: 2002	
		Clostridium Perferingens	IS 5887 (Part 4): 1999	Qualitative: Absent/ present/ ml or gm
2.	Food Products- Starch & starch products	Total plate count/g	IS 5402:2012,BAM 8 th Ed Ch 3 Jan 2001, AOAC petrifilm method- 2016 (20 th Addition)	≥10cfu/gm
		Total Coliforms/g	IS 5401(part 1):2002,	≥10cfu/gm
		Yeast &mould/g	IS 5403:1999, RA-2013, BAM 8 th Ed Ch 4 sep 2002, AOAC petrifilm method- 2016 (20 th Addition)	≥10cfu/gm ≥100cfu/gm
		E. coli /g	IS 5887(part 1):1976 RA-2013, BAM 8 th Ed Ch 4sep 2002, AOAC petrifilm method- 2016 (20 th Addition)	≥10cfu/gm MPN=3 to 1100 MPN=0.3 to 110
		Staphylococcus aureus/g	IS 5887(part 2):1976, RA-2013, BAM 8 th Ed Ch 12 jan2001,AOACpetrifilm method- 2016 (20 th Addition)	≥10cfu/gm MPN=3 to >1100 MPN=0.3 to 110
		Salmonella	IS 5887(part 3):1993, RA-2013, BAM 8 th Ed Ch 5 Apr 2003	Absent/present
		Bacillus cereus	BAM 8 th Ed Ch 14 jan2001	≥10 cfu/g,<3 MPN to1100
		Clostridium perferingens	BAM 8 th Ed Ch 16 jan 2001	≥10cfu/ gm
3.	Food Products- spices and	Total plate count	IS 5402:2012,BAM 8 th Ed Ch 3 jan 2001, AOAC	≥10cfu/g

Laboratory Azis Labs, M-43, Sector-III, Industrial Area, Pithampur, District: Dhar, Madhya Pradesh

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7374

Page 4 of 22

Validity 06.06.2018 to 05.06.2020

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
	condiments		petrifilm method- 2016 (20 th Addition)	
		Total Coliforms	BAM 8 th Ed Ch 4 sep 2002, AOAC petrifilm method- 2016 (20 th Addition)	≥10cfu/g MPN<3 to 1100
		Yeast & mould	IS 5403:1999, RA-2013, BAM 8 th Ed Ch 18, AOAC petrifilm method- 2016 (20 th Addition)	≥10cfu ≥100cfu
		E. coli	BAM 8 th Ed Ch 4sep 2002, AOAC petrifilm method- 2016 (20 th Addition)	≥10cfu MPN=3 to 1100
		Staphylococcus aureus	BAM 8 th Ed Ch 12 jan 2001, AOAC petrifilm method- 2016 (20 th Addition)	≥10cfu MPN=3 to >1100
		Salmonella	BAM 8 th Ed Ch 5 Apr 2003	Absent/present
		Bacillus cereus	BAM 8 th Ed Ch 10 jan2003	Absent/present
		Clostridium perferingens	BAM 8 th Ed Ch 16 jan 2001	≥10cfu/gm
		Lactic acid bacteria	IS 12899:1989	≥10cfu/g
III.	DRUGS AND PHARMACEUTICALS			
1	Drugs and Pharmaceuticals	Microbial contamination in non-sterile product	IP 2014 /volume- I page No. 38/chapter 2.2.9	Absent/present ≥10cfu/gm
		Sterility	IP 2014 /volume I page No.59/chapter 2.2.11	Qualitative Absent/present

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

Laboratory Azis Labs, M-43, Sector-III, Industrial Area, Pithampur, District: Dhar,
Madhya Pradesh

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7374

Page 5 of 22

Validity 06.06.2018 to 05.06.2020

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
<u>CHEMICAL TESTING</u>				
I.	WATER			
1.	Surface Water, Ground Water	pH	IS 3025(Part 11):1983	2 to 12
		Chloride	IS 3025(Part 32):1988	5 mg/l to 600 mg/l
		Fluoride	APHA 4500-F D (23rd Edition)2017	0.02 mg/l to 10 mg/l
		Phosphorous	APHA 4500-P D (23rd Edition)2017	0.05 mg/l to 10 mg/l
		Total Hardness (as CaCO ₃)	IS 3025(Part 21):1983	10 mg/l to 900 mg/l
		Total Dissolve Solids	IS 3025(Part 16):1984	5 mg/l to 18000 mg/l
		Chemical Oxygen Demand	APHA 5220 B (23rd Edition) 2017	5 mg/l to 200 mg/l
		Biological Oxygen Demand	IS 3025(Part 44):1993	1 mg/l to 100 mg/l
		Conductivity	IS 3025(Part 14):1984	1 µS/cm to 30000 µS/cm
		Calcium	IS 3025(Part 14):1984	2 mg/l to 200 mg/l
		Magnesium	IS 3025(Part 46):1994	2 mg/l to 200 mg/l
		Colour	IS 3025(Part 46):1994	1 to 500 (Hazen units) Pt. Co units
		Total Suspended Solids	IS 3025(Part 17):	1 mg/l to 500 mg/l
		Acidity	IS 3025(Part 22):1986	2 mg/l to 500 mg/l
		Total Alkalinity	IS 3025(Part 23):1986	2 mg/l to 500 mg/l
		Ammonical Nitrogen	IS 3025(Part 34):1988	0.2 mg/l to 100 mg/l
		Chorine Residual	IS 3025(Part 26):1986	0.1 mg/l mg/l to 10 mg/l
		Sodium	IS 3025(Part 45):1993	2 mg/l to 1000 mg/l
		Potassium	IS 3025(Part 45):1993	1 mg/l to 500 mg/l
		Turbidity	IS 3025(Part 10):1984	0.5 NTU to 1000 NTU
		Sulphate	IS 3025(Part 24):1986	1 mg/l to 500 mg/l
		Dissolved Oxygen	IS 3025(Part 38):1989	0.5 mg/l to 30 mg/l
		Nitrate Nitrogen	IS 3025(Part 34):1988	0.1 mg/l to 50 mg/l

Ashok Kumar
Convenor

N. Venkateswaran
Program Director

Laboratory Azis Labs, M-43, Sector-III, Industrial Area, Pithampur, District: Dhar, Madhya Pradesh

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7374

Page 6 of 22

Validity 06.06.2018 to 05.06.2020

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
		(as NO ₃)	clause 3.3	
		Nitrite Nitrogen (as NO ₂)	IS 3025(Part 34):1988 clause 4	0.01 mg/l to 50 mg/l
		Oil & Grease	IS 3025(Part 39):1991	1 mg/l to 250 mg/l
		Temperature	APHA 2550 B (23rd Edition)2017	2°C to 50°C
		Total Kjeldahl Nitrogen	APHA 4500 N B (23rd Edition)2017	0.2 mg/l to 100 mg/l
		Lead	IS 3025(Part 47):1994	0.02 mg/l to 25 mg/l
		Manganese	IS 3025(Part 59):2006	0.02 mg/l to 50 mg/l
		Zinc	IS 3025(Part 49):1994	0.1 mg/l to 50mg/l
		Iron	IS 3025(Part 53):2003	0.1 mg/l to 50 mg/l
		Cobalt	APHA 3111 B/C (23rd Edition)2017	0.02 mg/l to 10 mg/l
		Copper	IS 3025(Part 42):1992	0.1 mg/l to 50 mg/l
		Arsenic	IS 3025(Part 37):1988	0.005 mg/l to 2.5 mg/l
		Nickel	IS 3025(Part 54):2003	0.02 mg/l to 20 mg/l
		Cadmium	IS 3025(Part 41):1992	0.02 mg/l to 10 mg/l
		Mercury	IS 3025(Part 48):1994	0.005 mg/l to 2.5mg/l
		Chromium	IS 3025(Part 52):2003	0.10 mg/l to 20 mg/l
II.	POLLUTION AND ENVIRONMENT			
1.	Waste Water (Effluent/ Sewage)	pH	IS 3025(Part 11):1983, RA 2006	2 mg/l to 12
		Chloride	IS 3025(Part 32):1988, RA 2000	2 mg/l to 5000 mg/l
		Fluoride	APHA 4500-F D (23rd Edition)2017	0.1 mg/l to 50 mg/l
		Phosphorous	APHA 4500-P D (23rd Edition)2017	0.6 mg/l to 500 mg/l
		Total Hardness (as CaCO ₃)	IS 3025(Part 21):2009	0.5 mg/l to 30000 mg/l
		Total Dissolve Solids	IS 3025(Part 16):1984,	10 mg/l to 100000 mg/l

Laboratory Azis Labs, M-43, Sector-III, Industrial Area, Pithampur, District: Dhar, Madhya Pradesh

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7374

Page 7 of 22

Validity 06.06.2018 to 05.06.2020

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
			RA 2006	
		Chemical Oxygen Demand	APHA 5220 B (23 rd Edition)2017	5 mg/l to 100000 mg/l
		Biochemical Oxygen Demand	IS 3025(Part 44):1993	2 mg/l to 30000 mg/l
		Conductivity	IS 3025 (Part 14) 1984, RA 2006	1 µmhos/cm to 10000 µmhos/cm
		Calcium	IS 3025 (Part 40) 1991, RA 2009	2 mg/l to 10000 mg/l
		Magnesium	IS 3025 (Part 46) 1991, RA 2009	1 mg/l mg/l to 5000 mg/l
		Colour	APHA 2120 B, (23 rd Edition)2017	1 to 100 Hazen
		Total Suspended Solids	IS 3025 (Part 17)-1984, RA 2006	5 mg/l to 5000 mg/l
		Acidity	IS 3025 (Part 22) 1986, RA 2009	1 mg/l to 1000 mg/l
		Total Alkalinity	IS 3025 (Part 23)-1986, RA 2009	1 mg/l to 1000 mg/l
		Ammonical Nitrogen	IS 3025 (Part 34) 1988, RA 2009	0.1 mg/l to 500 mg/l
		Chlorine Residual	IS 3025(Part 26):1986	0.1 mg/l to 50 mg/l
		Sodium	IS 3025 (Part 45), 1993, RA 2009	2 mg/l to 2000 mg/l
		Potassium	IS 3025 (Part 45), 1993, RA 2009	2 mg/l to 2000 mg/l
		Turbidity	IS 3025 (Part 10) 1984, RA 2006	1 NTU to 1000 NTU
		Sulphate	IS 3025 (Part 24) 1986, RA 1992	1 mg/l to 5000 mg/l
		Dissolved Oxygen	IS 3025 (Part 38) 1989, RA 2009	0.5 mg/l to 15mg/l
		Nitrate Nitrogen (as NO ₃)	IS 3025 (Part 34) 1988, RA 2009	0.2 mg/l to 100 mg/l

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Laboratory Azis Labs, M-43, Sector-III, Industrial Area, Pithampur, District: Dhar, Madhya Pradesh

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7374

Page 8 of 22

Validity 06.06.2018 to 05.06.2020

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
		Nitrite Nitrogen (as NO ₂)	IS 3025 (Part 34) 1988, RA 2009	0.1 mg/l to 10mg/l
		Oil & Grease	APHA 5520 B, Ed. 23 rd Edition	2 t mg/l o 300 mg/l
		Temperature	IS 3025 (Part 9) 1984, RA 2006	10 °C to 50 °C
		Total Kjeldahl Nitrogen	APHA 4500 N B (23rd Edition)2017	0.2 mg/l to 100 mg/l
		Lead	IS 3025 (Part 47) 1994, RA 2009	0.2 mg/l to 50 mg/l
		Manganese	APHA 3111 B, 23 rd Edition, 2017	0.05 mg/l to 10 mg/l
		Zinc	IS 3025(Part 49):1994	0.01 mg/l to 50 mg/l
		Iron	IS 3025 (Part 53) 2003, RA 2009	0.2 mg/l to 1000 mg/l
		Cobalt	APHA 3111 B/C, 23 rd Edition, 2017	0.1 mg/l to 25 mg/l
		Copper	IS 3025 (Part 42) 1992, RA-2003	0.05 mg/l to 50 mg/l
		Arsenic	IS 3025(Part 37):1988 RA 2009	0.01 mg/l to 10 mg/l
		Nickel	APHA 3111 B, 23 rd Edition, 2017	1 mg/l to 50 mg/l
		Cadmium	IS 3025(Part 41):1992, RA 2009	0.01 mg/l to 10 mg/l
		Mercury	IS 3025(Part 48):1994, RA 2009	0.005 mg/l to 5 mg/l
		Chromium	IS 3025(Part 52):2003	0.2 mg/l to 100 mg/l
III.	ATMOSPHERIC POLLUTION			
1.	Ambient Air	Suspended Particulate Matter	IS 5182 (Part 4): 1999	10 mg/l to 1500 µg/m ³
		Particulate Matter 10	IS 5182 (Part 23): 2006	10 µg/m ³ to 500 µg/m ³
		Particulate Matter 2.5	AZSTP/ENV/004-00 Based on Guideline by	10 µg/m ³ to 200 µg/m ³

Laboratory **Azis Labs, M-43, Sector-III, Industrial Area, Pithampur, District: Dhar, Madhya Pradesh**

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

Certificate Number **TC-7374**

Page 9 of 22

Validity **06.06.2018 to 05.06.2020**

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
			CPCB NAAQMS/36/2012-13	
		Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001	10 µg/m ³ to 200 µg/m ³
		Oxides of Nitrogen (NO ₂)	IS 5182 (Part 6): 2006	10 µg/m ³ to 200 µg/m ³
		Ozone	IS 5182 (Part 09):1974	10 µg/m ³ to 200 µg/m ³
		Lead	IS 5182 (Part-22) :2004	0.05 µg/m ³ to 5 µg/m ³
		Ammonia	AZSTP/ENV/008-00 Based on Guideline by CPCB NAAQMS/36/2012-13	10 µg/m ³ to 1000 µg/m ³
		Arsenic	AZSTP/ENV/009-00 Based on Guideline by CPCB NAAQMS/36/2012-13	0.1 ng/m ³ to 20 ng/m ³
		Nickel	AZSTP/ENV/011-00 Based on Guideline by CPCB NAAQMS/36/2012-13	0.2 ng/m ³ to 100 ng/m ³
2.	Stack Emission Monitoring	Particulate Matter	IS 11255 (Part 1): 1985, RA-2003	5 mg/N m ³ to 20000 mg/N m ³
		Sulphur Dioxide	IS 11255 (Part 2): 1985, RA-2003	4 mg/N m ³ to 1000 mg/N m ³
		Oxides of Nitrogen	IS 11255 (Part 7): 2005, RA-2003	5 mg/N m ³ to 5000 mg/N m ³
IV.	FOOD AND AGRICULTURE PRODUCTS			
1.	Bakery and confectionary products	Acid insoluble ash	IS 1011-2002(RA-2009) IS 12711-1989 (RA-2010) IS 1483:1988(RA-2010)	0.02% to 2.0%
		Acidity of extracted fat	IS 1011-2002(RA-2009) IS 12711-1989 (RA-2010)	0.1% to 2.0%
		Alcoholic acidity	IS 12711-1989(RA-2010)	0.03% to 2.0%
		Moisture	IS 1011-2002(RA-2009)	0.5% to 20%

Laboratory Azis Labs, M-43, Sector-III, Industrial Area, Pithampur, District: Dhar, Madhya Pradesh

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7374

Page 10 of 22

Validity 06.06.2018 to 05.06.2020

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
			IS 12711-1989 (RA-2010)	
		Total ash	IS 12711-1989(RA-2010)	0.1% to 5.0%
		Total fat	IS 12711-1989(RA-2010)	0.5% to 60%
		Total solid content	IS 12711-1989(RA-2010) IS 1483:1988(RA-2010)	20% to 99.5%
		Protein	IS 7219:1973(RA-2010)	0.2% to 40%
		Carbohydrate	IS 1656:2007(RA-2012)	5% to 90%
		Energy value	IS 13285:1992(RA-2012)	20 to 800 k.cal/100g
		Sugar	FSSAI lab manual 4-2015 method no.A.9 and A.10 page no. 75-76	0.50% to 70%
		pH	IS 1483:1988(RA-2010)	2.0 to 12.5
		Crude fibre	IS 1483:1988(RA-2010)	0.2% to 10%
		Sodium	IS 9497:1980 (RA-2010)	2 mg/kg to10000 mg/kg
		Potassium	IS 9497:1980 (RA-2010)	5 mg/kg to10000 mg/kg
		Calcium	IS 5949:1990 (RA-2010)	5 mg/kg to10000 mg/kg
		Magnesium	IS 5949:1990 (RA-2010)	5 mg/kg to 10000 mg/Kg
		Iron	FSSAI lab manual metals -2016 method no. 2.0 page no. 9	5 mg/kg to1000 mg/kg
		Lead	FSSAI lab manual metals -2016 method no. 2.0 page no. 9	0.2 mg/kg to 250 mg/kg
		Arsenic	IS 11124:1984 (RA-2003)	0.1 mg/kg to 100 mg/kg
		Cadmium	FSSAI lab manual metals -2016 method no. 2.0 page no. 9	0.1 mg/kg to 250 mg/kg
		Mercury	FSSAI lab manual metals -2016 method no. 2.1 page no. 18	0.1 mg/kg to 100mg/kg

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Laboratory Azis Labs, M-43, Sector-III, Industrial Area, Pithampur, District: Dhar, Madhya Pradesh

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7374

Page 11 of 22

Validity 06.06.2018 to 05.06.2020

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
		Zinc	FSSAI lab manual metals -2016 method no. 2.0 page no. 9 FSSAI lab manual metals -2016	1 mg/kg to 250 mg/kg
		Copper	FSSAI lab manual metals -2016 method no. 2.0 page no. 9	1 mg/kg to 250 mg/kg
2.	Cereals, pulses and pulses products			
	Atta, Maida, Suji /Rawa, Besan, Pearl Barley, Corn Flakes, Wheat , rice, soybean, jawar, Maize, moong, chana, pulses, food grains, Atta, maida, suji or rawa, besan, pearl barley , corn flakes, pulses, Cereals, pulses and by- products	Moisture	IS 1155:1968(RA-2015) IS 1009:2015 (RA-2010) IS 1156:1957(RA-2015) IS 1158:1973(RA-2010) IS 2639:1999(RA-2015) IS 15271:2003(RA-2013) IS 4333 (P-2):2017	0.5% to 20%
		Total ash	IS 1155:1968(RA-2015) IS 1009:2015 (RA-2010) IS 1156:1957(RA-2015) IS 1158:1973(RA-2010) IS 2639:1999(RA-2015) IS 15271:2003(RA-2013)	0.1% to 5.0%
		Acid insoluble ash	IS 1155:1968(RA-2015) IS 1010:1968 (RA-2015) IS 1009:2015 (RA-2010) IS 1156:1957(RA-2015) IS 1158:1973(RA-2010) IS 2639:1999(RA-2015) IS 15271:2003(RA-2013)	0.02% to 2.0%
		Alcoholic acidity	IS 1155:1968(RA-2015) IS 1010:1968 (RA-2015)	0.03% to 2.0%

Laboratory Azis Labs, M-43, Sector-III, Industrial Area, Pithampur, District: Dhar, Madhya Pradesh

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7374

Page 12 of 22

Validity 06.06.2018 to 05.06.2020

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
			IS 1009:2015 (RA-2010) IS 1156:1957(RA-2015) IS 1158:1973(RA-2010)	
		Gluten	IS 1155:1968(RA-2015) IS 1010:1968 (RA-2015) IS 1156:1957(RA-2015)	5.0% to15%
		Crude fibre	IS 1155:1968(RA-2015) IS 1156:1957(RA-2015) IS 1158:1973(RA-2010) IS 2639:1999(RA-2015) IS 10226 (P-1):1982 (RA-2015) IS 4684:1975 (RA-2015)	0.2% to 5.0%
		Protein	IS 7219: 1973 (RA-2010)	0.2% to 80.0%
		Fat	IS 4684:1975. RA-2010	0.2% to 60.0%
		pH	IS 2639:1999(RA-2015)	2.0 to 12.5
		Acidity of extracted fat	IS 15271:2003(RA-2013)	0.2 to 5.0
		Carbohydrate	IS 1656:2007 (RA-2012)	5.0% to 90%
		Energy value	IS 13285:1992 (RA-2012)	10 k.cal/100g to 800 k.cal/100g
		Sodium	IS 9497:1980 (RA-2010)	2 mg/kg to10000 mg/kg
		Potassium	IS 9497:1980 (RA-2010)	5 mg/kg to10000 mg/kg
		Calcium	IS 5949:1990 (RA-2010)	5 mg/kg to10000 mg/kg
		Magnesium	IS 5949:1990 (RA-2010)	5 mg/kg to 10000 mg/Kg
		Iron	FSSAI lab manual metals -2016 method no. 2.0 page no. 9	5 mg/kg to1000 mg/kg
		Lead	FSSAI lab manual metals -2016 method no. 2.0 page no. 9	0.2 mg/kg to 250 mg/kg
		Arsenic	IS 11124:1984 (RA-2003)	0.1 mg/kg to 100 mg/kg

Laboratory **Azis Labs, M-43, Sector-III, Industrial Area, Pithampur, District: Dhar, Madhya Pradesh**

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

Certificate Number **TC-7374**

Page 13 of 22

Validity **06.06.2018 to 05.06.2020**

Last Amended on --

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		Cadmium	FSSAI lab manual metals -2016 method no. 2.0 page no. 9	0.1 mg/kg to 250 mg/kg
		Mercury	FSSAI lab manual metals -2016 method no. 2.1 page no. 18	0.1 mg/kg to 100 mg/kg
		Zinc	FSSAI lab manual metals -2016 method no. 2.0 page no. 9 FSSAI lab manual metals -2016	1 mg/kg to 250 mg/kg
		Copper	FSSAI lab manual metals -2016 method no. 2.0 page no. 9	1 mg/kg to 250 mg/kg
	Grains	Foreign matter	IS 4333 (P-1):1996 (RA-2012)	0.05% to 20%
		Broken grains	IS 4333 (P-1):1996 (RA-2012)	0.05% to 20%
		Other edible grains	IS 4333 (P-1):1996 (RA-2012)	0.05% to 20%
		Weeviled grains	IS 4333 (P-1):1996 (RA-2012)	0.05% to 40%
		Damaged grains	IS 4333 (P-1):1996 (RA-2012)	0.05% to 20%
3.	Milk and dairy products			
	Milk, Milk powder, Skimmed milk powder, Milk, milk	Total solids	IS 1479 (P-2):1961 (RA-2013)	1.0% to 25%
		Fat	IS 1479 (P-2):1961	0.2% to 20%

Laboratory Azis Labs, M-43, Sector-III, Industrial Area, Pithampur, District: Dhar, Madhya Pradesh

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7374

Page 14 of 22

Validity 06.06.2018 to 05.06.2020

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
	powder, skimmed milk powder, Milk and dairy products		(RA-2013)	
		S.N.F.	IS 1479 (P-1):2016	1.0% to 20%
		Protein	IS 1479 (P-2):1961 (RA-2013)	0.2% to 10%
		Added urea	IS 1479 (P-1):2016	Qualitative
		Total urea	IS 1479 (P-1):2016	50 mg/kg to 2000 mg/kg
		Starch	IS 1479 (P-1):2016	Qualitative
		Moisture	IS 16072:2012	0.2% to 10%
		Total ash	IS 1165:2002(RA-2013) IS 14433-2007 (RA-2012)	0.2% to 10%
		Total solid	IS 1165:2002(R2013) IS 16072:2012	1.0% to 99.0%
		Fat	IS 11721:2013	0.2% to 40.0%
		Protein	IS 7219: 1973 (RA-2010)	0.2% to 45.0%
		Titrateable acidity	IS 11766:1986 (RA-2012)	0.2% to 2.5%
		Carbohydrate	IS 1656:2007 (RA-2012)	1.0% to 90%
		Energy value	IS 13285:1992 (RA-2012)	10 to 800 k.cal/100g
		Sodium	IS 9497:1980 (RA-2010)	2 mg/kg to 5000 mg/kg
		Potassium	IS 9497:1980 (RA-2010)	5 mg/kg to 10000 mg/kg
		Calcium	IS 5949:1990 (RA-2010)	5 mg/kg to 10000 mg/kg
	Magnesium	IS 5949:1990 (RA-2010)	5 mg/kg to 10000 mg/kg	
	Iron	FSSAI lab manual metals -2016 method no. 2.0 page no. 9	5 mg/kg to 1000 mg/kg	
	Lead	FSSAI lab manual metals -2016 method no. 2.0 page no. 9	0.2 mg/kg to 250 mg/kg	
	Arsenic	IS 11124-1984, RA-2003	0.1 mg/kg to 100 mg/kg	
	Cadmium	FSSAI lab manual metals -2016 method no. 2.0 page no. 9	0.1 mg/kg to 250 mg/kg	

Laboratory Azis Labs, M-43, Sector-III, Industrial Area, Pithampur, District: Dhar, Madhya Pradesh

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7374

Page 15 of 22

Validity 06.06.2018 to 05.06.2020

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
		Mercury	FSSAI lab manual metals -2016 method no. 2.1 page no. 18	0.1 mg/kg to 100 mg/kg
		Zinc	FSSAI lab manual metals -2016 method no. 2.0 page no. 9	1 mg/kg to 250 mg/kg
		Copper	FSSAI lab manual metals -2016 method no. 2.0 page no. 9	1 mg/kg to 250 mg/kg
	Ghee	Moisture	IS 548 (P-1):1964 (RA-2015)	0.05% to 2.5%
		Free fatty acid	IS 548 (P-1):1964 (RA-2015)	0.05% to 5.0%
		B.R.R.	IS 548 (P-1):1964 (RA-2015)	30.0 to 65.0
		R.M. value	IS 548 (P-1):1964 (RA-2015)	1.0 to 35.0
		Test for vanaspati	IS 15642(P-2):2006 (RA-2011)	Qualitative
4.	Herbs, Spices and condiments			
	Black pepper, turmeric, coriander, ginger, cumin, fenugreek, mustard, garlic, chili, Coriander powder, Chili powder, Turmeric powder	Moisture	IS 1797:2017	0.4% to 40.0%
		Total ash	IS 1797:2017	0.2% to 20.0%
		Acid insoluble ash	IS 1797:2017	0.05% to 5.0%
		Crude fibre	IS 1797:2017	0.2% to 50.0%
		Bulk density (Mass/l)	IS 1797:2017	100g/l to 900g/l
		Nonvolatile ether extract	IS 1797:2017	0.5% to 45.0%
		Volatile oil	IS 1797:2017	0.1% to 20.0%
		Water insoluble ash	IS 1797:2017	0.05% to 25.0%

Laboratory Azis Labs, M-43, Sector-III, Industrial Area, Pithampur, District: Dhar, Madhya Pradesh

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7374

Page 16 of 22

Validity 06.06.2018 to 05.06.2020

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
		Cold water soluble extract	IS 1797:2017	0.5% to 50.0%
		Alcohol soluble extract	IS 1797:2017	0.5% to 50.0%
		Extraneous matter	IS 1797:2017	0.1% to 10.0%
		Curcumin	IS 10925:1984 (RA-2012)	0.2% to 10.0%
		Salt	IS 1797:2017	0.05% to 5.0%
		Calcium	IS 1797:2017	0.05% to 5.0%
		Total starch	IS 4706(P-2):1978 (RA-2015)	1.0% to 70.0%
		Test for lead chromate	IS 3576:2010	Qualitative
	Spices and condiments	Iron	FSSAI lab manual metals -2016 method no. 2.0 page no. 9	5 mg/kg to 1000 mg/kg
		Lead	FSSAI lab manual metals -2016 method no. 2.0 page no. 9	0.1 mg/kg to 250 mg/kg
		Arsenic	IS 11124-1984, RA-2003	0.05 mg/kg to 100 mg/kg
		Cadmium	FSSAI lab manual metals -2016 method no. 2.0 page no. 9	0.05 mg/kg to 250 mg/kg
		Mercury	FSSAI lab manual metals -2016 method no. 2.1 page no. 18	0.05 mg/kg to 100 mg/kg
		Zinc	FSSAI lab manual metals -2016 method no. 2.0 page no. 9	1 mg/kg to 250 mg/kg
		Copper	FSSAI lab manual metals -2016	1 mg/kg to 250 mg/kg

Ashok Kumar
Convenor

N. Venkateswaran
Program Director

Laboratory Azis Labs, M-43, Sector-III, Industrial Area, Pithampur, District: Dhar, Madhya Pradesh

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7374

Page 17 of 22

Validity 06.06.2018 to 05.06.2020

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
			method no. 2.0 page no. 9	
5.	Edible Oil & Fats			
	Edible Oil	Moisture and volatile matter	IS 548(P-1):1964 (RA-2015)	0.05% to 5.0%
		Free fatty acid	IS 548(P-1):1964 (RA-2015)	0.05% to 5.0%
		Acid value	IS 548(P-1):1964 (RA-2015)	0.10 to 10.0
		Iodine value	IS 548(P-1):1964 (RA-2015)	5.0 to 200.0
		Specific gravity	IS 548(P-1):1964 (RA-2015)	0.70 to 1.0
		Saponification value	IS 548(P-1):1964 (RA-2015)	10.0 to 270.0
		Unsaponifiable matter	IS 548(P-1):1964 (RA-2015)	0.10% to 5.0%
		B.R.R.	IS 548(P-1):1964 (RA-2015)	30.0 to 68.0
		Test for mineral oil	IS 548(P-2):1976 (RA-2010)	Qualitative
		Test for castor oil	IS 15642(P-1):2006 (RA-2011)	Qualitative
		Test for Argemone oil	IS 15642(P-1):2006 (RA-2011)	Qualitative
		Bellier turbidity temp.	IS 548(P-2):1976 (RA-2010)	15.0°C to 45.0 °C
		Peroxide value	IS 548(P-1):1964 (RA-2015)	0.2 meq/kg to 100 meq/kg
6.	Tea			
	Tea	Moisture	IS 13853:1994 (RA-2009)	0.1% to 20.0%
		Total ash	IS 13854:1994 (RA-2009)	0.1% to 20.0%
		Water soluble ash of total ash	IS 13855:1993 (RA-2009)	0.1% to 80.0%

Laboratory Azis Labs, M-43, Sector-III, Industrial Area, Pithampur, District: Dhar, Madhya Pradesh

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7374

Page 18 of 22

Validity 06.06.2018 to 05.06.2020

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
		Alkalinity of water soluble ash	IS 13856:1993 (RA-2009)	0.1% to 10%
		Acid insoluble ash	IS 13857:1993 (RA-2009)	0.02% to 5.0%
		Water extract	IS 13862:1999 (RA-2009)	0.5% to 70.0%
		Crude fibre	IS 10226(P-1):1982 (RA-2015)	0.2% to 25.0%
		Iron	FSSAI lab manual metals -2016 method no. 2.0 page no. 9	5 mg/kg to 2000 mg/kg
V.	ANIMAL FOOD & FEED			
1.	Pet foods, Cotton seed cake and Rice polish, De-Oiled Cake	Acid insoluble ash	IS 7874(P-1):1975 (RA-2014)	0.05% to 10.0%
		Crude fat	IS 7874(P-1):1975 (RA-2014)	0.5% to 60.0%
		Moisture	IS 7874(P-1):1975 (RA-2014)	0.5% to 25.0%
		Total ash	IS 7874(P-1):1975 (RA-2014)	0.1% to 25.0%
		Crude Protein	IS 7874(P-1):1975 (RA-2014)	0.2% to 60.0%
		Crude fibre	IS 7874(P-1):1975 (RA-2014)	0.20% to 30.0%
	Others			
	Papad, Ready to eat Namkeen	Moisture	IS 2639-1999 (RA 2010) IS 15271-2003 (RA 2010)	0.5% to 20%
		Total ash	IS 2639-1999(RA 2010) IS 15271-2003(RA 2010)	0.1% to 10.0%
		Acid insoluble ash	IS 2639-1999(RA 2010) IS 15271-2003(RA 2010)	0.02% to 2.0%
		Alkalinity of ash	IS 2639-1999(RA 2010) IS 15271-2003(RA 2010)	0.10% to 10.0%

Laboratory **Azis Labs, M-43, Sector-III, Industrial Area, Pithampur, District: Dhar, Madhya Pradesh**

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

Certificate Number **TC-7374**

Page 19 of 22

Validity **06.06.2018 to 05.06.2020**

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
		Fat	IS 2639-1999(RA 2010) IS 15271-2003(RA 2010)	0.2% to 60.0%
		pH	IS 2639-1999(RA 2010)	2.0 to 12.5
		Acidity of extracted fat	IS 15271-2003(RA 2010)	0.2 to 5.0
		Crude fibre	IS 2639-1999(RA 2010) IS 10226 (part-1) 1982	0.2% to 10%
		Peroxide value	IS 15271:2003(RA-2009)	0.2 meq/kg to 100 meq/kg
VI.	DRUGS & PHARMACEUTICALS			
1.	Raw Material (General tests)	Weight per ml	IP 2014, Vol. 1, Page. 208	0.6 g/ml to 2.0 g/ml
		Refractive Index	IP 2014, Vol. 1, Page. 203	1.300 to 1.700
		Acid Value	IP 2014, Vol. 1, Page. 100	1 to 100
		Iodine Value	IP 2014, Vol.1, Page. 102	1 to 200
		Saponification Value	IP 2014, Vol. 1, Page. 109	10 to 270
		Heavy Metals	IP 2014, Vol. 1, Page. 96	Qualitative
		Water	IP 2014, Vol. 1, Page 113	0.1 % to 50%
		Specific optical Rotation	IP 2014, Vol. 1, Page 167	(±) 0 to 360°
		Appearance of Solution	IP 2014, Vol. 1, Page 129	Qualitative
		pH	IP 2014, Vol. 1, Page 169	1 to 14
		Arsenic	IP 2014, Vol. 1, Page 96	Qualitative
		Loss on Drying	IP 2014, Vol. 1, Page 162	0.1% to 30%
		Sulphated ash	IP 2014, Vol. 1, Page 98	0.1% to 10%
		Chloride	IP 2014, Vol. 1, Page 96	Qualitative
		Sulphate	IP 2014, Vol. 1, Page 98	Qualitative
		Alcohol Content	IP 2014, Vol. 1, Page 116	1% to 99%
		Melting Point / Range	IP 2014, Vol. 1, Page 164	Ambient - 370°C
		Acidity or Alkalinity	IP 2014, as per Monograph	Qualitative
		Light Absorption (UV)	IP 2014, Vol. 1, Page. 139	0.01 to 0.800
2.	Finished Products (General tests)	Average Weight	IP 2014, Vol. 1, Page. 256	0.05 g to 5 g
		Uniformity of Weight	IP 2014, Vol. 1, Page. 256	Qualitative
		Disintegration Test	IP 2014, Vol. 1, Page. 251	1 min to 180 min
		Dissolution	IP 2014, Vol. 1, Page. 253	50% to 120%
		Uniformity of Content	IP 2014, Vol. 1, Page. 257	50% to 150%

Laboratory **Azis Labs, M-43, Sector-III, Industrial Area, Pithampur, District: Dhar, Madhya Pradesh**

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

Certificate Number **TC-7374**

Page 20 of 22

Validity **06.06.2018 to 05.06.2020**

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
		Water	IP 2014, Vol. 1, Page. 113	0.1 to 50
		pH	IP 2014, Vol. 1, Page. 169	1 to 14
		Identification (IR)	IP 2014, Vol. 1, Page. 134	Qualitative
		Identification (UV)	IP 2014, Vol. 1, Page. 139	Qualitative
		Identification (HPLC)	IP 2014, Vol. 1, Page. 152	Qualitative
		Identification (Melting Point)	IP 2014, Vol. 1, Page. 164	Qualitative
		Identification (TLC)	IP 2014, Vol. 1, Page. 160	Qualitative
		Related Substance	IP 2014, Vol. 1, Page. 161	Qualitative
3.	Tablet			
	Amoxicillin Dispersible Trihydrate Tablet	Assay (HPLC)	IP 2014, Vol. 2, Page. 1056	90% to 120%
	Cefadroxil R/M	Assay (HPLC)	IP 2014, Vol. 2, Page. 1291	90.0% to 110.0%
	Chloroquine Phosphate R/M	Assay (HPLC)	IP 2014, Vol. 2, Page. 1366	90.0% to 110.0%
	Ciprofloxacin Tablet	Assay (HPLC)	IP 2014, Vol. 2, Page. 1403	90.0% to 110.0%
	Diaz oxide Tablet	Assay (UV)	IP 2014, Vol. 2, Page. 1550	90.0% to 110.0%
	Ibuprofen	Assay (Titration)	IP 2014, Vol. 2, Page. 1941	95.0% to 105.0%
	Metronidazole Tablet	Assay (Non Aqueous Titration)	IP 2014, Vol. 2, Page. 2219	95.0% to 105.0%
	Trimethoprim Sulphamethoxazole Tablet	Assay (UV) & Assay (Titration)	IP 2014, Vol. 3, Page. 2924	90.0% to 110.0%
	Ampicillin Dispersible Tablet	Assay (HPLC)	IP 2014, Vol. 2, Page. 1065	90.0% to 110.0%
	Norfloxacin Tablet	Assay (HPLC)	IP 2014, Vol. 3, Page. 2352	90.0% to 110.0%
	Nalidixic Acid Tablet	Assay (UV)	IP 2014, Vol. 3, Page. 2293	90.0% to 110.0%
	Cephalexin Tablet	Assay (HPLC)	IP 2014, Vol. 2, Page. 1336	90.0% to 110.0%
	Ranitidine Hcl R/M	Assay (HPLC)	IP 2014, Vol. 3, Page. 2643	90.0% to 110.0%
	Paracetamol	Assay (UV) 4-	IP 2014, Vol. 3, Page. 2634	95.0% to 105.0%

Laboratory **Azis Labs, M-43, Sector-III, Industrial Area, Pithampur, District: Dhar, Madhya Pradesh**

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

Certificate Number **TC-7374**

Page 21 of 22

Validity **06.06.2018 to 05.06.2020**

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
	Tablet	Aminophenol (HPLC)		
	Ascorbic Acid Tablet	Assay (Titration)	IP 2014. Vol. 1, Page. 1087	95.0% to 115.0%
	Albendazole Tablet	Assay (UV)	IP 2014. Vol. 2, Page. 1006	90.0% to 110.0%
	Chlorpheniramine Meleate Tablet	Assay (UV)	IP 2014. Vol. 2, Page. 1375	90.0% to 110.0%
	Dicyclomine Tablet	Assay (Titration)	IP 2014. Vol. 2, Page. 1559	90.0% to 110.0%
	Ofloxacin Tablet	Assay (HPLC)	IP 2014. Vol. 3, Page. 2369	90.0% to 110.0%
4.	Capsules			
	Amoxicilline Capsule	Assay (HPLC)	IP 2014. Vol. 2, Page. 1055	90.0% to 110.0%
	Ampicilline Capsule	Assay (HPLC)	IP 2014. Vol. 2, Page. 1063	90.0% to 110.0%
	Cloxacillin Capsule	Assay (HPLC)	IP 2014. Vol. 2, Page. 1446	90.0% to 110.0%
	Chloramphenicol Capsule	Assay (HPLC)	IP 2014. Vol. 2, Page. 1349	90.0% to 110.0%
	Cephalexin Capsule	Assay (HPLC)	IP 2014. Vol. 2, Page. 1293	90.0% to 110.0%
	Diphenhydramine Hydrochlorid Capsule	Assay (Titration)	IP 2014. Vol. 2, Page. 1558	90.0% to 110.0%
5.	Oral suspension			
	Cefadroxil	Assay (HPLC)	IP 2014. Vol. 2, Page. 1335	90.0% to 110.0%
	Chloramphenicol Palmitate	Assay (UV)	IP 2014. Vol. 2, Page. 1353	90.0% to 110.0%
	Furazolidone	Assay (UV)	IP 2014. Vol. 2, Page. 1837	90.0% to 110.0%
	Trimethoprim-Sulphamethoxazole	Assay (UV)	IP 2014. Vol. 2, Page. 2923	90.0% to 110.0%
	Amoxicillin	Assay (UV)	IP 2014. Vol. 1, Page. 1057	90.0% to 110.0%
	Chloroquine	Assay (UV)	IP 2014. Vol. 2, Page. 1367	90.0% to 110.0%

Laboratory Azis Labs, M-43, Sector-III, Industrial Area, Pithampur, District: Dhar, Madhya Pradesh

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7374

Page 22 of 22

Validity 06.06.2018 to 05.06.2020

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
	Phosphate			
	Paracetamol (Syrup)	Assay (HPLC)	IP 2014, Vol. 2, Page. 2433	95.0% to 105.0%
	Benzyle Benzoate Application	Assay (Titrimetry)	IP 2014, Vol. 2, Page. 1161	90.0% to 110.0%
	Magaldrate	Assay (Titrimetry)	IP 2014, Vol. 2, Page. 2136	90.0% to 110.0%
6.	Injection- General Tests			
	General Tests	Uniformity of Weigh/ Content / Volume	IP 2014, Vol. 2, Page. 958	Qualitative
		pH	IP 2014, Vol. 1, Page. 169 Appendix 2.2.4	1 to 14
		Particulate Contamination	IP 2014, Vol. 2, Page. 957	Qualitative
	Amipicillin Injection	Assay (HPLC)	IP 2014, Vol. 2, Page. 1068	95.0% to 105.0%
	Amoxicillin Injection	Assay (HPLC)	IP 2014, Vol. 2, Page 1053	90.0% to 110.0%
	Ciprofloxacin Injection	Assay (HPLC)	IP 2014, Vol. 2, Page 1400	90.0% to 110.0%
	Dextrose	Assay	IP 2014, Vol. 2, Page. 1542	90.0% to 110.0%
	Sodium Chloride & Dextrose	Assay (for Sodium Chloride)	IP 2014, Vol. 3, Page. 2741 & 2742	90.0% to 110.0%
	Sodium Chloride	Assay	IP 2014, Vol. 3 Page. 2744	90.0% to 110.0%