

Laboratory Quality Assurance Department, Gharda Chemicals Ltd., B/27-29,
MIDC, Phase-1, Dombivli (East), Dist.- Thane, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6696 (in lieu of T-0104)

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Validity 31.01.2018 to 30.01.2020

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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CHEMICAL TESTING

I.	DRUGS & PHARMACEUTICALS			
A.	Veterinary Drug			
1.	Oxyclozanide	Characteristics	B.P. (Vet.)	Qualitative
		Assay	B.P. (Vet.) / QACFP008 D/I 15/10/2015	85% to 101%
		Sulphated ash	B.P. (Vet.)	0.01% to 0.2%
		Loss on drying	B.P. (Vet.)	0.01% to 1%
		Ionisable chlorine	B.P. (Vet.)	Qualitative
		Related substances	B.P. (Vet.)	Qualitative
		Identification Test		
		1) The infrared absorption spectrum	B.P. (Vet.)	Qualitative
		2) The light absorption	B.P. (Vet.)	Qualitative
		3) Melting point	B.P. (Vet.)	Qualitative
II.	PESTICIDE FORMULATIONS			
1.	Cypermethrin (Tech.)	Description	IS 12015	Qualitative
		Cypermethrin content	IS 12015	85% to 99.9%
		Acidity	IS 6940	0.01% to 0.3%
		Moisture content	IS 6940	0.01% to 1.0%
		Cis-trans Ratio	IS 12015	Relative ratio
2.	Isoproturon (Tech.)	Description	IS 12004	Qualitative
		Isoproturon content	IS 12004	80% to 99.9%
		Acidity / Alkalinity	IS 6940	0.01% to 1.0%
		Water content	IS 6940	0.01% to 1.0%
		Melting point	IS 6940	152°C to 158 °C
		Flash point	IS 1448 [P:20]	19°C to 70°C
3.	Anilophos (tech.)	Description	IS 13402	Qualitative
		Anilophos content	IS 13402	85% to 99.9%

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		Acidity	IS 6940	0.01% to 0.5%
		Moisture content	IS 6940	0.01% to 1.0%
		Material insoluble in acetone	IS 6940	0.01% to 0.5%
4	Chlorpyriphos (Tech.)	Description	IS 8963	Qualitative
		Chlorpyriphos content	WHO Specification 221/TC (August 2015) 2.2	75% to 99.9%
		Sulfotep content	WHO Specification 221/TC (August 2015) 3.1	0.03% to 0.5%
		Acidity	IS 6940	0.01% to 1.0%
		Water content	IS 6940	0.01% to 1.0%
		Material insoluble in acetone	IS 6940	0.01% to 0.5%
		Melting point	IS 6940	35°C to 50 °C
5.	Deltamethrin (Tech.)	Description	IS 12005	Qualitative
		Deltamethrin content	IS 12005	60% to 99.9%
		Melting point	IS 6940	90°C to 110 °C
		Acid chloride corresponding to deltamethrin	IS 12005	0.05% to 1.0%
		Acid + Anhydride corresponding to deltamethrin	IS 12005-1987	0.05% to 2%
6.	Temephos (Tech.)	Description	IS 8701-2013	Qualitative
		Temephos content	IS 8701-2013	80% to 98%
		Acidity	IS 6940-1982	0.01% to 1.0%
		Moisture content	IS 6940-1982	0.01% to 0.5%
		Material insoluble in acetone	IS 6940-1982	0.01% to 0.2%
7.	Alphacypermethrin (Tech.)	Description	IS 15616-2006	Qualitative
		Alphacypermethrin content	IS 15616-2006	75% to 99.9%
		(1R cis)R and (1S cis) S isomers	IS 15616-2006	0.1% to 5.0% (relative ratio)

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		Trans (trans-1 and trans-2) isomer	IS 15616	0.1% to 5 % (relative ratio)
		Alkalinity	IS 6940	0.01% to 1.0%
		Moisture content	IS 6940	0.01% to 1.0%
		Suspensibility	IS 15603	50% to 99%
8.	Diflubenzuron (Tech.)	Description	IS 14185	Qualitative
		Diflubenzuron content	IS 14185	85.0% to 100.0%
		Moisture content	IS 6940	0.01% to 1.0%
		Acidity	IS 6940	0.01% to 1.0%
93	Cypermethrin EC	Description	IS 12016	Qualitative
		Cypermethrin content	IS 12015	3% to 30%
		Acidity	IS 6940	0.01% to 0.5%
		Emulsion stability	IS 6940	Qualitative
		Cold Test	IS 6940	Qualitative
		Flash point	IS 1448 [P:20]	19°C to 70°C
10.	Isoproturon WP	Description	IS 11995	Qualitative
		Isoproturon content	IS 11995	45% to 85%
		Acidity / Alkalinity	IS 6940	0.01% to 0.5%
		Wettability	IS 6940	Qualitative
		Sieving requirement, material passing through 75-micron IS Sieve	IS 6940	90% to 100%
		Suspensibility	IS 11995	50% to 99%
11.	Anilophos EC	Description	IS 13403	Qualitative
		Anilophos content	IS 13403	25% to 40%
		Acidity/Alkalinity	IS 6940	0.02% to 0.5%
		Emulsion stability	IS 6940	Qualitative
		Cold test	IS 6940	Qualitative
		Flash point	IS 1448 [P:20]	19°C to 70°C
12.	Chlorpyrifos EC	Description	IS 8944	Qualitative
		Chlorpyrifos content	WHO Specification 221/EC (August 2015) 2.2	5% to 60%

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		Sulfotep content	WHO Specification 221/EC (August 2015) 3.1	0.03% to 0.5%
		Acidity	IS 6940	0.01% to 1%
		Emulsion stability	IS 6940	Qualitative
		Cold Test	IS 6940	Qualitative
		Flash point	IS 1448 [P:20]	19°C to 70 °C
13	Deltamethrin EC	Description	IS 11996-1987	Qualitative
		Deltamethrin content	IS 11996-1987	1.0% to 10.0%
		Acidity/Alkalinity	IS 6940-1982	0.01% to 1.0%
		Emulsion stability	IS 6940-1982	Qualitative
		Cold Test	IS 6940-1982	Qualitative
		Flash point	IS 1448 [P:20]	19°C to 70 °C
14.	Deltamethrin WP	Description	IS 13457-1992	Qualitative
		Deltamethrin content	IS 13457-1992	2.0% to 10.0%
		Acidity/ Alkalinity	IS 6940-1982	0.01% to 0.5%
		Wettability	IS 6940-1982	Qualitative
		Sieving requirement, material passing through 45-micron IS Sieve	IS 6940-1982	90% to 100%
		Suspensibility	IS 13457	50% to 99%
15.	Temephos EC	Description	IS 8498	Qualitative
		Temephos content	IS 8701	40.0% to 60.0%
		Acidity	IS 6940	0.01% to 1.0%
		Emulsion stability	IS 6940	Qualitative
		Cold Test	IS 6940	Qualitative
		Flash point	IS:1448 [P:20]	19°C to 70 °C
16.	Alphacypermethrin EC	Description	IS 15602	Qualitative
		Alphacypermethrin content	IS 15616	5.0% to 25.0%
		Acidity/Alkalinity	IS 6940	0.01% to 1.0%
		Emulsion stability	IS 6940	Qualitative
		Cold Test	IS 6940	Qualitative
		Flash point	IS:1448 [P:20]	19°C to 70°C

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17.	Alphacypermethrin WP	Description	IS 15603	Qualitative
		Alphacypermethrin content	IS 15616	5.0% to 10.0%
		Acidity/ Alkalinity	IS 6940	0.01% to 1.0%
		Wettability	IS 6940	Qualitative
		Sieving requirement, material passing through 75-micron IS Sieve	IS 6940	90% to 100%
		Suspensibility	IS 15603	50% to 99%
18.	Sulfosulfuron WG	Description	IS 16213	Qualitative
		Active Ingredient	IS 16213	60.0% to 85.0%
		Wettability Test	IS 6940	Qualitative
		Sieving Test	IS 6940	90% to 100%
		Suspensibility	IS 16213	50% to 99%
19.	Diflubenzuron WP	Description	IS 14186	Qualitative
		Diflubenzuron content	IS 14185	20.0% to 30.0%
		Acidity/ Alkalinity	IS 6940	0.01% to 1.0 %
		Wettability	IS 6940	Qualitative
		Sieving requirement, material passing through 44-micron IS Sieve	IS 6940	90% to 100%
		Suspensibility	IS 14186	50% to 99 %