

**Laboratory**                      **QC Laboratory of Finar Limited, 184-185-186/P, Village-Chacharwadi Vasna, Bavla 8 Km Milestone, Sarkhej-Bavla Highway, Ta. Sanand, Dist. Ahmedabad, Gujarat**

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

**Certificate Number**        **TC-5440**

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**Validity**                        **14.10.2017 to 13.10.2019**

**Last Amended on 03.01.2018**

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**

<b>I. INDUSTRIAL AND FINE CHEMICALS</b>				
<b>1.</b>	<b>Acetonitrile</b>	Colour	ACS 10 <sup>th</sup> , January- 2006 pg: 133 & 43	0 to 20 Hazen
		Specific gravity, 20°C	ASTM D891, April-2009	0.5 to 4.0
		Distillation range (80-82°C)	ASTM D1078, December-2001	40 °C to 250 °C
		Refractive index, 20° C	ASTM D1218, December - 2012	1.300 to 1.700
		Assay (GC)	ACS 10 <sup>th</sup> Januray-2006 pg: 133 & 80	98 % to 100 %
		Gradient elution test (at 210 nm)	ACS 10 <sup>th</sup> , January-2006 pg: 134 & 84	0.01 mAU to 10 mAU
		Gradient elution test (at 254 nm)	ACS 10 <sup>th</sup> , January-2006 pg: 134 & 84	0.01 mAU to 10 mAU
		UV Transmission Profile (1cm cell) @ 195 nm	ACS 10 <sup>th</sup> , January-2006 pg: 134 & 86	70 % to 95 %
		UV Transmission Profile (1cm cell) @ 200 nm	ACS 10 <sup>th</sup> , January-2006: 134 & 86	85 % to 99 %
		UV Transmission Profile (1cm cell) @ 210 nm	ACS 10 <sup>th</sup> , January-2006 pg: 134 & 86	85 % to 99 %
		UV Transmission Profile (1cm cell) @ 220 nm	ACS 10 <sup>th</sup> , January-2006 pg: 134 & 86	85 % to 99 %
		UV Transmission Profile (1cm cell) @ 225 nm	ACS 10 <sup>th</sup> , January-2006 pg: 134 & 86	85 % to 99 %

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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
		UV Transmission Profile (1cm cell) @ 230 nm	ACS 10 <sup>th</sup> , January-2006 pg: 134 & 86	85 % to 99 %
		UV Transmission Profile (1cm cell) @ 240 nm	ACS 10 <sup>th</sup> , January-2006 pg: 134 & 86	85 % to 100 %
		Acidity	ACS 10 <sup>th</sup> , January-2006 pg: 134 & 86	0.00004 meq/g to 0.0008 meq/g
		Alkalinity	ACS 10 <sup>th</sup> , January-2006 pg: 134 & 86	0.00004 meq/g to 0.0008 meq/g
		Water	ASTM E203, November-2008	0.001 %w/w to 0.5 %w/w
		Residue on evaporation	ACS 10 <sup>th</sup> , January-2006 pg: 133 & 25	0.0001 %w/w to 0.50 %w/w
<b>2.</b>	<b>Methanol</b>	Assay (GC)	ACS 10 <sup>th</sup> , January-2006, pg :437 , 80	98 % to 100 %
		Specific gravity, 20°C	ASTM D891 April-2009	0.5 to 4.01
		Refractive index, 20° C	ASTM D1218, December-2018	1.300 to 1.700
		Distillation range	ASTM D1078, December - 2011	40 °C to 250 °C
		Gradient at 235 nm	ACS 10 <sup>th</sup> , January-2006, pg: 437 & 84	0.01 mAU to 10 mAU
		Gradient at 254 nm	ACS 10 <sup>th</sup> , January-2006, pg: 437 & 84	0.01 mAU to 10 mAU
		UV Transmission profile (10mm cell) at 205 nm	ACS 10 <sup>th</sup> , January-2006 pg :437 & 86	5 % to 50 %
		UV Transmission profile (10mm cell) at 210 nm	ACS 10 <sup>th</sup> , January-2006 pg :437 & 86	20 % to 75 %
		UV Transmission profile (10mm cell) at 220 nm	ACS 10 <sup>th</sup> , January-2006 pg :437 & 86	50 % to 70 %

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		UV Transmission profile (10 mm cell) at 235 nm	ACS 10 <sup>th</sup> , January-2006 pg :437 & 86	75 % to 95 %
		UV Transmission profile (10mm cell) at 240 nm	ACS 10 <sup>th</sup> , January-2006 pg :437 & 86	80 % to 100 %
		Residue on evaporation	ACS 10 <sup>th</sup> , January-2006 pg :437 & 85	0.0001 %w/w to 0.50 %w/w
		Water	ASTM E203, Number-2008	0.001 %w/w to 0.5 %w/w
<b>3.</b>	<b>n-Hexane</b>	Colour (APHA)	ACS 10 <sup>th</sup> , January-2006 pg:343	0 to 20 Hazen
		Assay (GC)	ACS 10 <sup>th</sup> , January-2006 pg:344 &80	90.0 % to 100.0 %
		Distillation range	ASTM D1078 , December-2011	68 °C to 69 °C
		Specific gravity	ASTM D891 , April-2009	0.658 to 0.659
		Refractive index	ASTM D1218, December-2012	1.300 to 1.700
		UV Transmission Profile (1cm cell) @ 200 nm	ACS 10 <sup>th</sup> , January-2006 pg 343 & 344 & 86	5 % to 75 %
		UV Transmission Profile (1cm cell) @ 210 nm	ACS 10 <sup>th</sup> , January-2006 pg 343 & 344 & 86	50 % to 75 %
		UV Transmission Profile (1cm cell) @ 220 nm	ACS 10 <sup>th</sup> , January-2006 pg 343 & 344 & 86	75 % to 95 %
		UV Transmission Profile (1cm cell) @ 230 nm	ACS 10 <sup>th</sup> , January-2006 pg 343 & 344 & 86	80 % to 95 %
		UV Transmission profile (1 cm cell) @ 250 nm	ACS 10 <sup>th</sup> , January-2006 pg 343 & 344 & 86	90 % to 100 %

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		Residue after evaporation	ACS 10 <sup>th</sup> , January-2006 pg:344 &25	0.0001 %w/w to 0.50 %w/w
		Acidity (as CH <sub>3</sub> COOH)	ASTM D1613, July-2012	0.0009 % to 0.09 %
		Water	ASTM E203, November-2008	0.005 %w/w to 0.50 %w/w
<b>4.</b>	<b>Tetrahydro- Furan</b>	Assay (GC)	ACS 10 <sup>th</sup> , January-2006, 2006 pg:684 & 80	95 % to100 %
		Distillation range	ASTM D1078, December-2011	65 °C to 67 °C
		Specific gravity	ASTM D891, April-2009	0.886 to 0.888
		Refractive index	ASTM D1218, December-2012	1.300 to1.700
		Residue after evaporation	ACS 10 <sup>th</sup> , January-2006, pg:685 &25	0.0001%w/w to 0.100 %w/w
		Acidity (as CH <sub>3</sub> COOH)	ASTM D1613, July-2012	0.0007 % to 0.07 %
		Peroxides (H <sub>2</sub> O <sub>2</sub> )	ACS 10 <sup>th</sup> , January-2006 pg:684	Passes test
		Water	ASTM E203, November-2008	0.005 %w/w to 0.50 %w/w
<b>5.</b>	<b>Karl Fischer Reagent</b>	KF factor	ASTM E203 November-2008	1.0 mg/ml to 7.0 mg/ml
<b>II.</b>	<b>WATER</b>			
<b>1.</b>	<b>Distilled Demineralized</b>	UV absorbance profile (10mm cell) @ 200nm	ACS 10 <sup>th</sup> , January-2006 pg:716	0.000 AU to 2.000 AU
		UV absorbance profile (10mm cell) @ 254nm	ACS 10 <sup>th</sup> , January-2006 pg:716	0.000 AU to 2.000 AU

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		Colour	ACS 10 <sup>th</sup> , January-2006 pg:42-43	0 to 20 Hazen
		Residue on evaporation	ACS 10 <sup>th</sup> , January-2006 pg:25	0.0001 % w/w to 0.50 % w/w
		Specific conductance at 25 °C	ACS 10 <sup>th</sup> , January-2006 pg:716	0.1 µS/cm to 100 µS/cm