

## CERTIFICATE OF ANALYSIS

<b>NAME OF PRODUCT</b>	<b>(LEEPOL™-940)</b>	<b>GENERIC NAME</b>	<b>CARBOMER 940 (ACRYLATE CO POLYMER)</b>
BATCH NO	50021026		
MFG. MONTH	JUN – 2021	DATE	22/06/2021
EXP. MONTH	MAY – 2026	REF NO.	TLC/940

TEST	SPECIFICATION	RESULTS
Description	White fluffy, hygroscopic powder having a slight, characteristic odor. The pH of 1 in 100 dispersion in water is about 3.	White fluffy, hygroscopic powder having a slight, characteristic odor. The pH of 1 in 100 dispersion in water is about 3.
Solubility	When neutralize with alkali hydroxide or amine it dissolve in water, alcohol and glycerine.	When neutralize with alkali hydroxide or amine it dissolve in water, alcohol and glycerine.
Identification	Gel formation after the neutralization of the dispersion	Gel formation after the neutralization of the dispersion
	(1) 1 % Dispersion with Thymol blue-Orange colour	Orange colour
	(2) 1 % Dispersion with cresol Red-Yellow colour	Yellow colour
Viscosity (0.5 % in water)	Between 40,000 to 60,000 mPas	58,000 mPas
Loss on Drying	NMT 2.0 %	0.90 %
Total Heavy Metals	NMT 0.002 %	<0.002 %
Limit of Benzene	NMT 0.5 %	Nil
Assay for carboxylic acid content	Between 56.0 % to 68.0 %	59.95 %
Residual Monomer (Free Acrylic acid)	NMT 0.25 %	0.23 %
Clarity of 0.5 % Solution In Reference with Water at 420nm Spectrophotometer	Not Less Than 85 %	93 %

\* Specification as per finished product specification meeting requirement of USP/NF.