

CERTIFICATE OF ANALYSIS

Product Name	Polysorbate 20
INCI Name	Polysorbate 20
CAS#	9005-64-5
Lot Number	M/2388115
Manufacture Date	11/2023
Re-test Date	11/2025

Characteristic	Specifications	Result
Colour at 25°C	5 Max. gardner	4.5
pH sol. (in aq.) 5%	5.0 - 7.0	5.67
Acid Value	2 Max. mg/g KOH	0.55
Saponification Value	40 - 50 mg/g KOH	42.8
Iodine Value	5 Max. cg/g J	3.73
Hydroxyl Value	96 - 108 mg/g KOH	103.4
Peroxide Value	5 Max. ppm	4.1
Water, Karl-Fisher	2.5 - 3.0 %	2.77
Free ethylene oxide	1 Max. ppm	0.02
Dioxane	5 Max. ppm	3.21
Heavy Met. / Ashes	10 Max /0.15 Max ppm/%	6.00/0.08
IR spectrum	Conform	CONFORMS

STABILITY AND STORAGE:

Keep in tightly closed container in a cool and dry place, protected from sunlight.
When stored for more than 24 months, quality should be checked before use.

As it is electronically generated document, hence no signature required.

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