

## **Certificate of Analysis**

Date: December 7, 2022

**Product:** Polysorbate 20

Lot/Batch Number: PL20221125 Retest Date: June 2024

Manufacture Date: June 2022 Commercial Expiry: June 2025

PROPERTIES	SPECIFICATIONS	RESULTS
Appearance	Clear liquid, yellow	Conforms
Odour	Characteristic	Conforms
Relative Density @20°C (g/ml)	1.055 – 1.166	1.090
Water Content (%)	< 3.0	2.7
Acidity (mg KOH/g)	< 2.00	1.05
Saponification Value (mg KOH/g)	40.0 – 50.0	44.0
Hydroxyl Value (mg KOH/g)	96.0 – 108.0	101.0
Free Ethylene Oxide (ppm)	≤ 1	1
Free Dioxane (ppm)	≤ 5	5

**Storage and Handling:** Shelf life is dependent on exposure to light/air and general good conditions. Products stored in adverse conditions will deteriorate faster. Products stored in ideal conditions away from light and moisture may last substantially longer. Retest date reflects absolute minimum period of time that product should remain in good useable condition.

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