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CERTIFICATE OF ANALYSIS

Product name	(1S)-(+)-Camphor-10-sulphonic acid
CAS NO	3144-16-9
Batch No	240103
Quantity	2500KG
Manufacture date	Jan 18,2024
Analysis date	Jan 24,2024
Shelf life	Two year
Quality Standard	The enterprise standard

Test Items	Specifications	Results
Appearance	White to Off-white powder	Conforms
Assay	$\geq 99.0\%$	99.9%
Loss on drying	$\leq 1.0\%$ (105°C 2hrs)	0.7%
Melting Point	193.0-202.0°C	195.0-195.3°C
Specific rotation(20% in H ₂ O)	+21.0° - +23.0°	+22.0°
Water	$\leq 0.8\%$ (By KF)	0.52%
Iron Ion	$\leq 10\text{ppm}$	<10ppm
Sulphate	$\leq 0.20\%$	<0.20%
Conclusion	The result conforms to the enterprise standard as above	

Q.C.Director:

Analyst:

Collator:

