

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-03-20 14:20:31  
Date of Next Testing: 2026-03-19 14:20:31  
Product Name: **TWEEN® 20**  
CAS Number: 9005-64-5  
Specifications & Purity: Suitable for molecular biology, viscous liquids  
Lot #: C2310592  
SKU #: **T434505**  
Analysis: **202773**

Parameter	Limit Values	Result
Saponification value	40-50 (mg/g)	41.30000 mg/g
Acid Value	0-2.2 (mg/g)	0.30000 mg/g
Hydroxy Value	96-108 (mgKOH/g)	98.40 mgKOH/g
Appearance(T434505)	Light Green-Yellow to Green-Yellow and Faint Yellow to Dark Yellow Viscous Liquid	Light Green-Yellow to Green-Yellow and Faint Yellow to Dark Yellow Viscous Liquid
Infrared spectrum	conforms to structure	Conforms to Structure
Solubility (100 mg/ml in H <sub>2</sub> O) pass (Clear Colorless to Yellow)		Pass



John Su  
QA & QC Manager