

## Certificate of Analysis

Date of Testing: 2023-02-11 10:39:32  
Date of Next Testing: 2027-02-10 10:39:32  
Product Name: **Tween 80**  
CAS Number: 9005-65-6  
Specifications & Purity: pharmaceutical  
Lot #: B2307597  
SKU #: **T104866**  
**Analysis:** **181380**  
Storage Temperature: Protected from light

Parameter	Limit Values	Result
Water by Karl Fischer	0-3 (%)	2.60 %
Acid Value	0-2.2 (mg/g)	0.30 mg/g
Heavy metal (as Pb)	0-0.001 (%)	0.00 %
viscosity	350-550 (mm <sup>2</sup> /s)	446.00 mm <sup>2</sup> /s
Ignition Residue (as sulfate)	0-0.2 (%)	0.08 %
Hydroxyl value	65-80 (mgKOH/g)	70.00 mgKOH/g
Iodine value (I <sub>2</sub> /100g)	18-24	20.20
Saponification value	45-55 (mgKOH/g)	47.00 mgKOH/g
PH	5-8	6.01
Density (20°C)	1.06-1.09 (g/ml)	1.07 g/ml
Color	pass	Pass
Freezing test	pass	Pass
Identification	pass	Pass



John Su  
QA & QC Manager