

ALADDIN SCIENTIFIC CORPORATION  
 14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2026-01-30 17:17:49  
 Date of Next Testing: 2029-01-29 17:17:49  
 Product Name: **Polyethylene glycol 400**  
 CAS Number: 25322-68-3  
 Specifications & Purity: PharmPure™,Ph.Eur.  
 Lot #: GMA2626184  
 SKU #: **P774684**  
 Version: **4**  
 Analysis #: **652092**  
 Storage Temperature: Room temperature

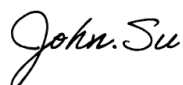
Parameter	Limit Values	Result
PH (5%, water) 25 ° C	4.5-7.5	5.72
Density(D 20/20)	1.110-1.14	1.12840
Viscosity(40°C)	37-45(mm <sup>2</sup> /s)	42.68000 mm <sup>2</sup> /s
Viscosity (98.9°C,USP)	6.8-8.0 (mm <sup>2</sup> /s)	7.75000 mm <sup>2</sup> /s
Diethylene glycol	0-0.1 (%)	0.02000 %
Ethylene glycol	≤ 0.1 (%)	0.00000 %
Triethylene glycol	≤ 0.3 (%)	0.17000 %
Ethylene oxide	≤0.0001 (%)	0.00010 %
dioxane	≤0.001 (%)	0.00007 %
Hydroxyl value	264-300 (mgKOH/g)	278.60 mgKOH/g
Average molecular mass	380-420	402.80000
Formaldehyde	≤ 0.001 (%)	0.00019 %
Sulfated Ash	0-0.1 (%)	0.06500 %
Water by Karl Fischer	0-1 (%)	0.04 %
Heavy metals	0-5 (ppm)	0.00002 ppm
As (Arsenic)	0-0.0003 (%)	0.00000 %
Endotoxins	≤ 0.012 (EU/mg)	0.00000 EU/mg
Total Aerobic Microbial Count	0-100 (cfu/ml)	0.00000 cfu/ml
Total yeasts and molds count(TYMC)	0-10 (cfu/ml)	0.00 cfu/ml
Appearance(P774684)	clear viscous colourless hygroscopic liquid	clear viscous colourless hygroscopic liquid
Identity(Precipitation test)	passes test	Passes test
Identity(color test)	passes test	Passes test
Appearance of solution	Conforms	Conforms
Acidity,Alkalinity	passes test	Passes test

---

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Parameter	Limit Values	Result
Acidity (according to JP)	Pass	Passes test
Reducing Substances	pass	Pass

A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager