

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2021-09-04 13:23:48  
 Date of Next Testing: 2023-09-04 13:23:48  
 Product Name: **Poly(D,L-lactide-co-glycolide)**  
 CAS Number: 26780-50-7  
 Specifications & Purity: acid terminated,lactide:glycolide 50:50,Mw 38000-54000  
 Lot #: I2102309  
 SKU #: **P133293**  
**Analysis:** **020733**  
 Storage Temperature: Store at 2-8°C,Argon charged

Parameter	Limit Values	Result
Residual Solvents(Acetone)(GLC-0-0.1 (%) HS)		0.00 %
D,L-Lactide(GC)	0-1.5 (wt%)	0.04 wt%
Glycolide(GC)	0-0.5 (wt%)	0.16 wt%
D,L-Lactide(Quantitative NMR)	45-55 (Mole%)	51.00 Mole%
Glycolide(Quantitative NMR)	45-55 (Mole%)	49.00 Mole%
Tin(Sn)	0-200 (ppm)	39.00 ppm
Total Residual Solvents	0-0.1 (%)	0.01 %
Water by Karl Fischer	0-0.5 (%)	0.36 %
Residual solvents(GLC-HS) (toluene)	0-890 (ppm)	56.00 ppm
Inherent Viscosity(0.1% in CHCl <sub>3</sub> ,25°C)	0.45-0.6 (DL/G)	0.55 DL/G
Sulfate Ash	0-0.1 (%)	0.01 %
Acid Value	≤1 (mgKOH/g)	0.30 mgKOH/g
Appearance (P133293)	White to Off White to yellow-brown Powder,pellets	White to Off White to yellow-brown Powder,pellets
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



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A handwritten signature in black ink that reads "John Su". The signature is written in a cursive, flowing style.

John Su  
QA & QC Manager