

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

| | |
|--------------------------|---|
| Date of Testing: | 2023-09-06 11:19:33 |
| Date of Next Testing: | 2025-09-05 11:19:33 |
| Product Name: | Poly(D,L-lactide-co-glycolide) |
| CAS Number: | 26780-50-7 |
| Specifications & Purity: | lactide:glycolide 50:50,ester terminated,Mw 38000-54000 |
| Lot #: | I2301191 |
| SKU # | P134564 |
| Analysis: | 272439 |
| Storage Temperature: | Store at 2-8°C,Argon charged |

| Parameter | Limit Values | Result |
|---|--------------------------|--------------------------|
| Water by Karl Fischer | 0-0.5 (%) | 0.30 % |
| Acid Value | 0-1 (mgKOH/g) | 0.40 mgKOH/g |
| Glycolide(Quantitative NMR) | 45-55 (Mole%) | 49.00 Mole% |
| Total Residual Solvents | 0-0.1 (%) | 0.02 % |
| Sulfate Ash | 0-0.5 (%) | 0.10 % |
| Heavy metals | 0-10 (ppm) | 2.30 ppm |
| D,L-Lactide(Quantitative NMR) | 45-55 (Mole%) | 51.00 Mole% |
| Residual Solvents(Acetone)(GLC-HS) | 0-0.1 (%) | 0.04 % |
| D,L-Lactide(GC) | 0-1.5 (wt%) | 0.05 wt% |
| Residual solvents(GLC-HS)(toluene) | 0-890 (ppm) | 360.00 ppm |
| Glycolide(GC) | 0-0.5 (wt%) | 0.36 wt% |
| Tin(Sn) | 0-150 (ppm) | 38.00 ppm |
| Average Molecular Weight | 38000-54000 | 45000.00 |
| Inherent Viscosity(0.1% in CHCl ₃ ,25°C) | 0.45-0.6 (DL/G) | 0.54 DL/G |
| Appearance (P134564) | White to Off White solid | White to Off White Solid |
| Proton NMR spectrum | Conforms to Structure | Conforms to Structure |



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

John Su
QA & QC Manager