

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

|                          |   |
|--------------------------|---|
| Date of Testing:         | 2024-08-15 11:34:28                                     |
| Date of Next Testing:    | 2026-08-15 11:34:28                                     |
| Product Name:            | <b>Poly(D,L-lactide-co-glycolide)</b>                   |
| CAS Number:              | 26780-50-7  |
| Specifications & Purity: | lactide:glycolide 50:50,ester terminated,Mw 38000-54000 |
| Lot #:                   | J2221389  |
| SKU #                    | <b>P134564</b>  |
| Version                  | <b>0</b>  |
| <b>Analysis #:</b>       | <b>399569</b>   |
| 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)            | 0.10 mgKOH/g             |
| Glycolide(Quantitative NMR)                         | 45-55 (Mole%)            | 48.00 Mole%              |
| Total Residual Solvents                             | 0-0.1 (%)                | 0.04 %                   |
| Sulfate Ash   | 0-0.5 (%)                | 0.01 %                   |
| Heavy metals  | 0-10 (ppm)               | 9.00 ppm                 |
| D,L-Lactide(Quantitative NMR)                       | 45-55 (Mole%)            | 50.00 Mole%              |
| Residual Solvents(Acetone)(GLC-HS)                  | 0-0.1 (%)                | 0.01 %                   |
| D,L-Lactide(GC)                                     | 0-1.5 (wt%)              | 0.03 wt%                 |
| Residual solvents(GLC-HS)(toluene)                  | 0-890 (ppm)              | 54.00 ppm                |
| Glycolide(GC)                                       | 0-0.5 (wt%)              | 0.33 wt%                 |
| Tin(Sn)   | 0-150 (ppm)              | 37.00 ppm                |
| Average Molecular Weight                            | 38000-54000              | 51500.00                 |
| Inherent Viscosity(0.1% in CHCl <sub>3</sub> ,25°C) | 0.45-0.6 (DL/G)          | 0.52 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". The signature is written in a cursive, flowing style.

John Su  
QA & QC Manager