

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-10-28 09:48:59  
 Date of Next Testing: 2028-10-27 09:48:59  
 Product Name: **Poly(D,L-lactide)**  
 CAS Number: 202832-99-3  
 Specifications & Purity: acid terminated, Mw 10,000-18,000  
 Lot #: J2422648  
 SKU #: **P299041**  
 Version: **2**  
 Analysis #: **415111**  
 Storage Temperature: Store at 2-8°C, Argon charged

| Parameter                                            | Limit Values             | Result                   |
|------------------------------------------------------|--------------------------|--------------------------|
| Identity Acid number                                 | ≥6 (mgKOH/g)             | 10.40000 mgKOH/g         |
| Inherent Viscosity(0.5% in CHCl <sub>3</sub> , 25°C) | 0.16-0.24 (DL/G)         | 0.19000 DL/G             |
| Water by Karl Fischer                                | 0-0.5 (%)                | 0.29000 %                |
| Residual monomer D,L-Lactide                         | ≤0.5 (%)                 | 0.37000 %                |
| Residual Solvents(Toluene)(GLC-HS)                   | ≤890 (ppm)               | 5.00000 ppm              |
| Residual solvents(GLC-HS)(Acetone)                   | ≤0.1 (%)                 | 0.00000 %                |
| Total Residual Solvents                              | ≤0.2 (%)                 | 0.00000 %                |
| Tin(Sn)                                              | 0-60 (ppm)               | 52.00000 ppm             |
| Bacterial endotoxins                                 | < 6 (EU/g)               | 5.00000 EU/g             |
| Sulfated Ash                                         | < 0.1 (%)                | 0.09500 %                |
| Total microbial count                                | ≤2000 (cfu/g)            | 9.00000 cfu/g            |
| Yeasts and moulds                                    | ≤200 (cfu/g)             | 8.00000 cfu/g            |
| Appearance (P299041)                                 | White to Off White solid | White to Off White Solid |
| Proton NMR spectrum                                  | Conforms to structure    | Conforms to Structure    |



QualityAssurance@aladdinsci.com

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

John Su  
QA & QC Manager