

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

| | |
|--------------------------|--|
| Date of Testing: | 2024-10-09 15:12:33 |
| Date of Next Testing: | 2028-10-08 15:12:33 |
| Product Name: | Poly(L-lactide) |
| CAS Number: | 33135-50-1 |
| Specifications & Purity: | ester terminated , Viscosity 2.6~3.2dL/g (0.1% in CHCl ₃ , 25 °C) |
| Lot #: | I2425562 |
| SKU # | P299052 |
| Version | 0 |
| Analysis #: | 412552 |
| Storage Temperature: | Argon charged |

| Parameter | Limit Values | Result |
|---|---------------------------------------|---------------------------------------|
| Tin(Sn) | 0-60 (ppm) | 15.00 ppm |
| Water by Karl Fischer | 0-0.5 (%) | 0.22 % |
| Sulfate Ash | 0-0.1 (%) | 0.10 % |
| Inherent Viscosity(0.1% in CHCl ₃ ,25°C) | 2.6-3.2 (DL/G) | 2.90 DL/G |
| Residual solvents(GLC-HS)(toluene) | 0-890 (ppm) | 27.00 ppm |
| Residual monomers L-Lactid (GC) | 0-0.1 (%) | 0.03 % |
| Heavy metals | 0-10 (ppm) | 9.00 ppm |
| Appearance (P299052) | White to Off-White Powder or Granules | White to Off-White Powder or Granules |
| Proton NMR spectrum | Conforms to Structure | Conforms to Structure |



John Su
QA & QC Manager