

## Certificate of Analysis

Date of Testing: 2023-06-06 13:43:50

Date of Next Testing: 2027-06-05 13:43:50

Product Name: **Poly(L-lactide)**

CAS Number: 33135-50-1

Specifications & Purity: ester terminated

Lot #: E2329788

SKU #: **P299052**

**Analysis: 193183**

| Parameter                                           | Limit Values                          | Result                                |
|-----------------------------------------------------|---------------------------------------|---------------------------------------|
| Tin(Sn)                                             | 0-60 (ppm)                            | 15.00 ppm                             |
| Water by Karl Fischer                               | 0-0.5 (%)                             | 0.19 %                                |
| Sulfate Ash                                         | 0-0.1 (%)                             | 0.01 %                                |
| Inherent Viscosity(0.1% in CHCl <sub>3</sub> ,25°C) | 2.6-3.2 (DL/G)                        | 2.60 DL/G                             |
| Residual solvents(GLC-HS)(toluene)                  | 0-890 (ppm)                           | 33.00 ppm                             |
| Residual monomers L-Lactid (GC)                     | 0-0.1 (%)                             | 0.02 %                                |
| Heavy metals                                        | 0-10 (ppm)                            | 8.00 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