

Certificate of Analysis

Date of Testing: 2023-12-20 10:50:16

Date of Next Testing: 2027-12-19 10:50:16

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

CAS Number: 33135-50-1

Specifications & Purity: ester terminated

Lot #: C2011127

SKU #: **P299052****Analysis: 306648**

Parameter	Limit Values	Result
Heavy metals	0-10 (ppm)	10.00 ppm
Tin(Sn)	0-60 (ppm)	29.00 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)	17.00 ppm
Residual monomers L-Lactid (GC)	0-0.1 (%)	0.05 %
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