

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-07-14 09:19:57

Date of Next Testing: 2027-07-13 09:19:57

Product Name: **Poly(L-lactide-co-ε-caprolactone)**

CAS Number: 65408-67-5

Specifications & Purity: ester terminated, Lactide: Caprolactone 70:30

Lot #: I1926135

SKU #: **P299053**

Version: **1**

Analysis #: **251487**

Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Residual solvents(GLC-HS)(toluene)	0-890 (ppm)	6.00000 ppm
Tin(Sn)	0-60 (ppm)	39.00000 ppm
Heavy metals	0-10 (ppm)	10.00000 ppm
Inherent Viscosity(0.1% in CHCl ₃ ,25°C)	1.3-1.8 (DL/G)	1.50000 DL/G
Caprolactone(Quantitative NMR)	27-33 (Mole%)	30.00000 Mole%
L-Lactide(Quantitative NMR)	67-73 (Mole%)	70.00000 Mole%
D,L-Lactide(GC)	0-1 (wt%)	0.10000 wt%
Water by Karl Fischer	0-0.5 (%)	0.18000 %
Sulfate Ash	0-0.1 (%)	0.00000 %
Caprolactone(GC)	0-1 (wt%)	0.00000 wt%
Appearance (P299053)	white to off white granules or flakes	White to off white granules or flakes
Odor (almost odorless)	pass	Pass
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager