

## Certification of Analysis

**Product: RiPurpose™Olig1000-700**  
**Lot# 221014MP**

Appearance = white powder

Carboxyl functional group =  $220 \pm 10$  mg KOH/g (ASTM 4662-08)

Hydroxyl functional group =  $40 \pm 5$  mg KOH/g (ASTM 4274-99)

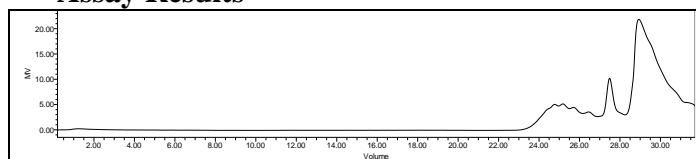
Molecular weight = 1045 Da

Particle size range = Up to 700  $\mu\text{m}$

Melting point = 131  $^{\circ}\text{C}$

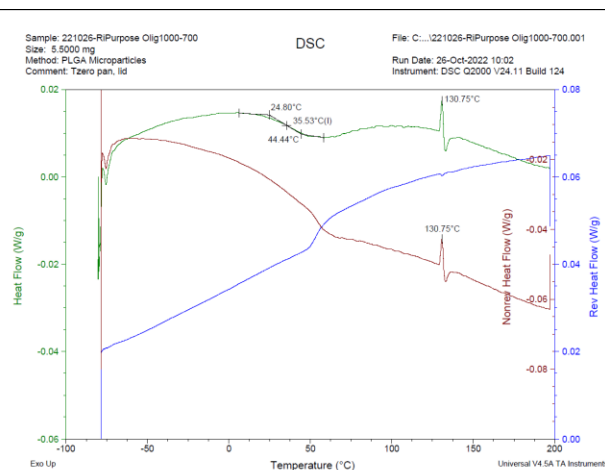
Glass transition temperature = 35  $^{\circ}\text{C}$

## Assay Results



GPC-ES Analysis Method: Waters Breeze 2 system with 1 ml/min THF flow across three GPC columns. Detection via refractive index, calibrated against polystyrene standards.

Polymer	$M_n$ (from GPC)	$M_w$ (from GPC)	PDI
Olig1000-700	926	1045	1.12



DSC Method: TA Instruments Q2000, ramp -80  $^{\circ}\text{C}$  to 200  $^{\circ}\text{C}$  at 3  $^{\circ}\text{C}/\text{min}$ , modulated  $\pm 1$   $^{\circ}\text{C}/30$  sec, argon purged in sealed aluminum pan.

## Chemical Structure

