

Certificate of Analysis

General properties:

Name: PEG45-PCL30

Molecular Weight: 5400 Dalton

Cat.#: R-Q-20021

Lot.#: RP0161184

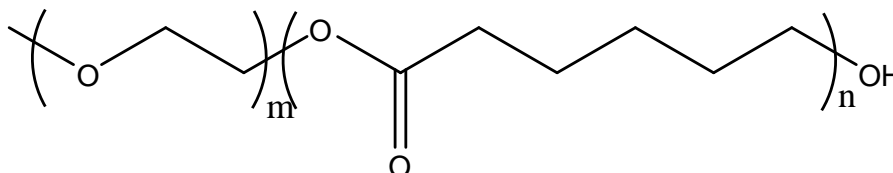
Date of Analysis: 2016.08.26

Recommended Retest date: 2017.08.26

Stability: 12 months

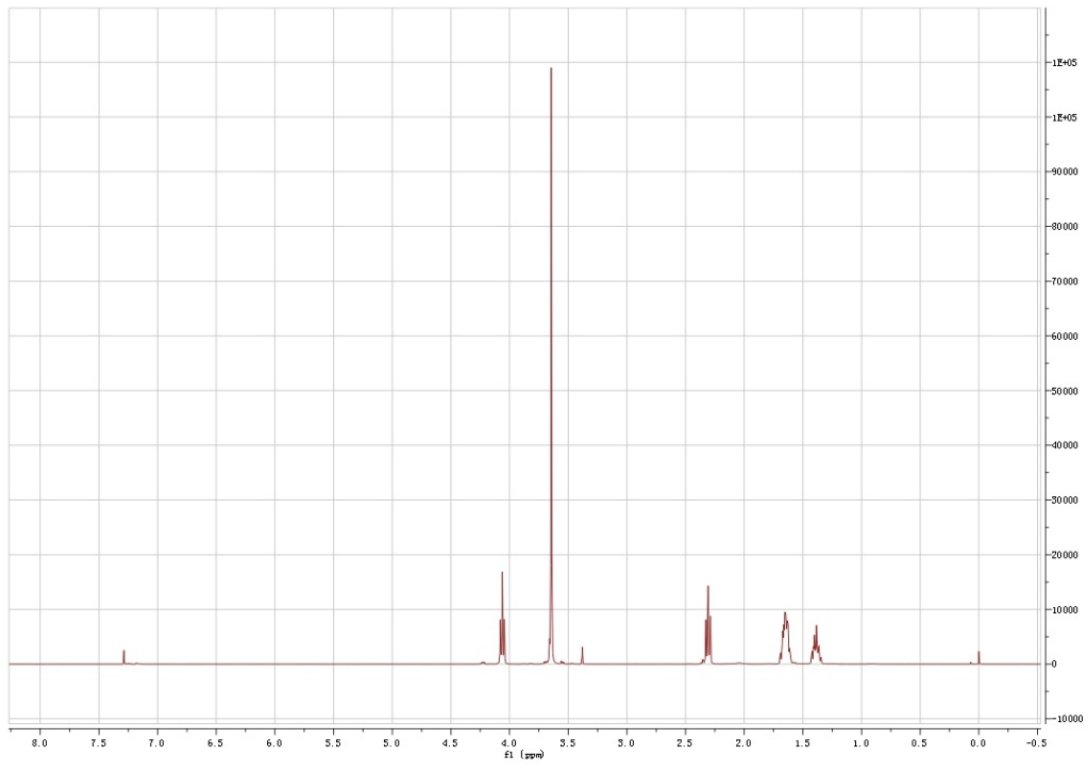
Storage: -20°C in the dark

Structure

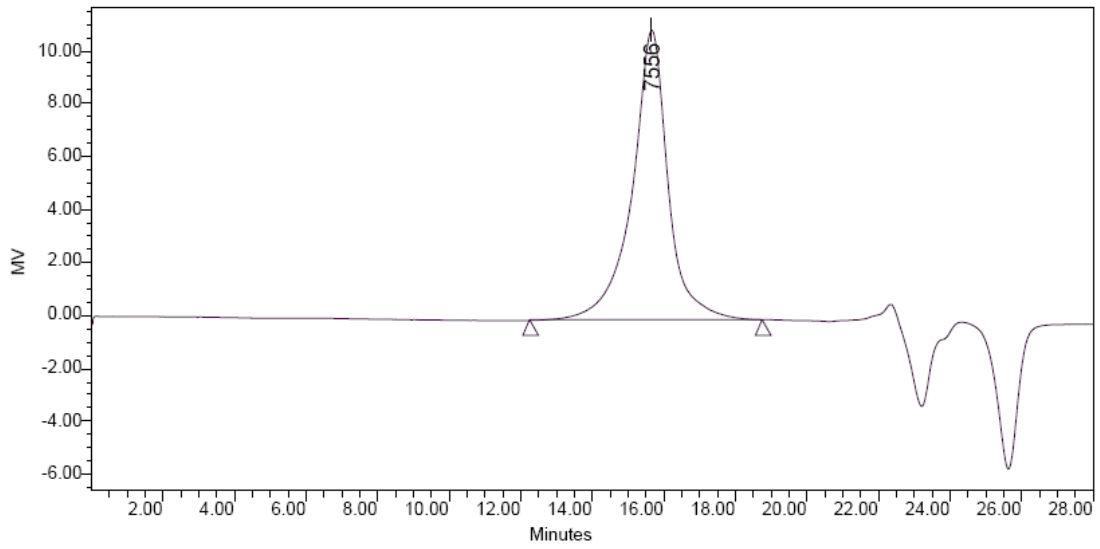


| Items | Specification | Results |
|--------------------|----------------------------|----------------------------|
| Appearance | White solid | White solid |
| ¹ H NMR | Identical to the structure | Identical to the structure |
| Foreign Material | None | None |
| Substitution | >90% | >90% |
| PDI | | <1.2 |

Report Date: 2016.08.26



Broad Unknown Modified Universal Chromatogram

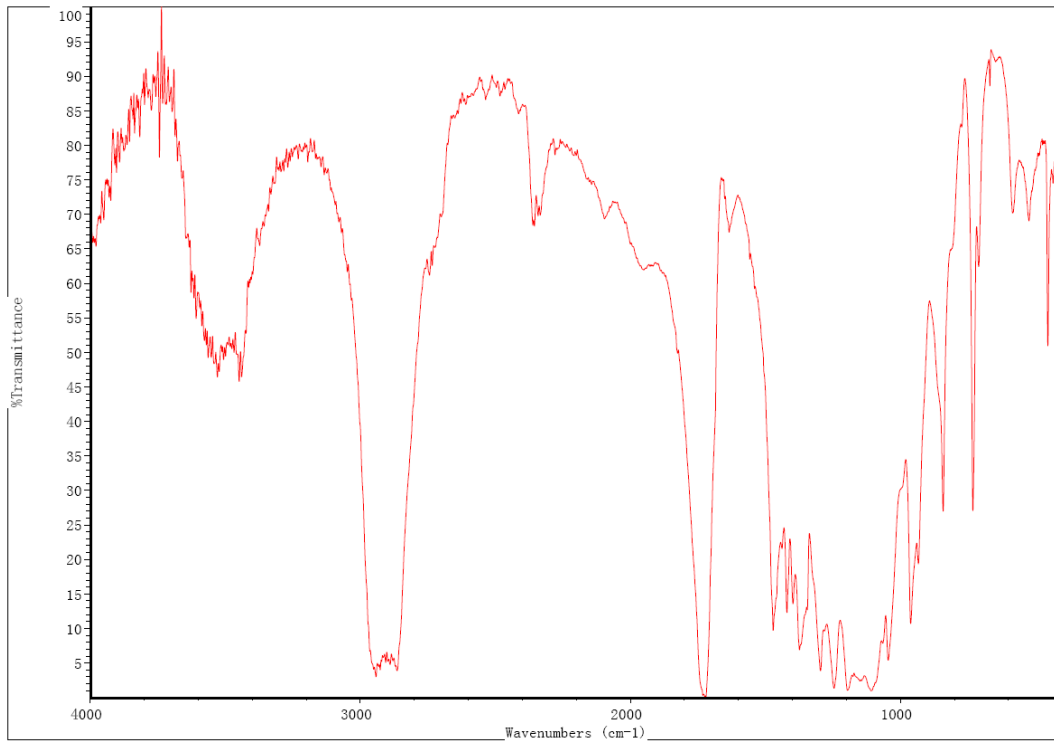


Broad Unknown Modified Universal Peak Table

| | Distribution Name | Mv (Daltons) | K (dl/g) | alpha | Intrinsic Viscosity (dl/g) | Mn (Daltons) | Mw (Daltons) | MP (Daltons) | Mz (Daltons) | Mz+1 (Daltons) | Polydispersity |
|---|-------------------|--------------|----------|-------|----------------------------|--------------|--------------|--------------|--------------|----------------|----------------|
| 1 | | | | | | 7286 | 8291 | 7556 | 9613 | 12020 | 1.137974 |

Broad Unknown Modified Universal Peak Table

| | Mz/Mw | Mz+1/Mw | K (dl/g) | alpha | Intrinsic Viscosity (dl/g) |
|---|----------|----------|----------|-------|----------------------------|
| 1 | 1.159450 | 1.449848 | | | |



This product is for research use only, Not for human or animal use
