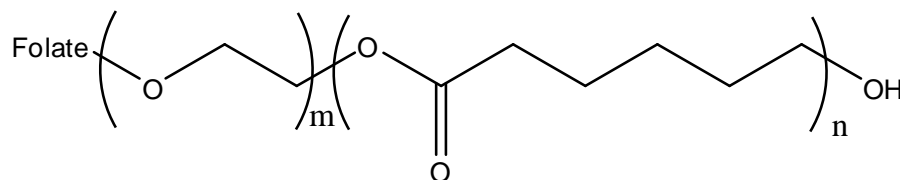


Certificate of Analysis

General properties:

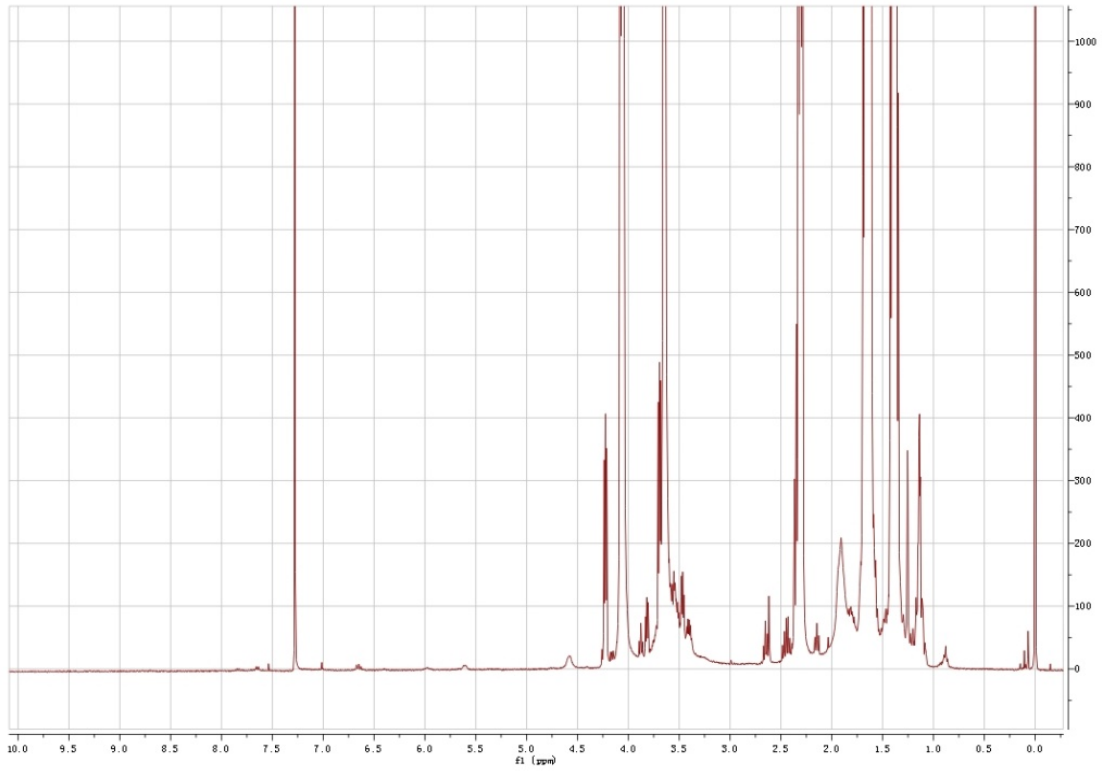
Name: OH-PCL20-PEG45-Folate
Molecular Weight: 4700 Dalton
Cat.#: R-Q-20045
Lot.#: RP0161187
Date of Analysis: 2016.08.26
Recommended Retest date: 2017.08.26
Stability: 12 months
Storage: -20°C in the dark

Structure

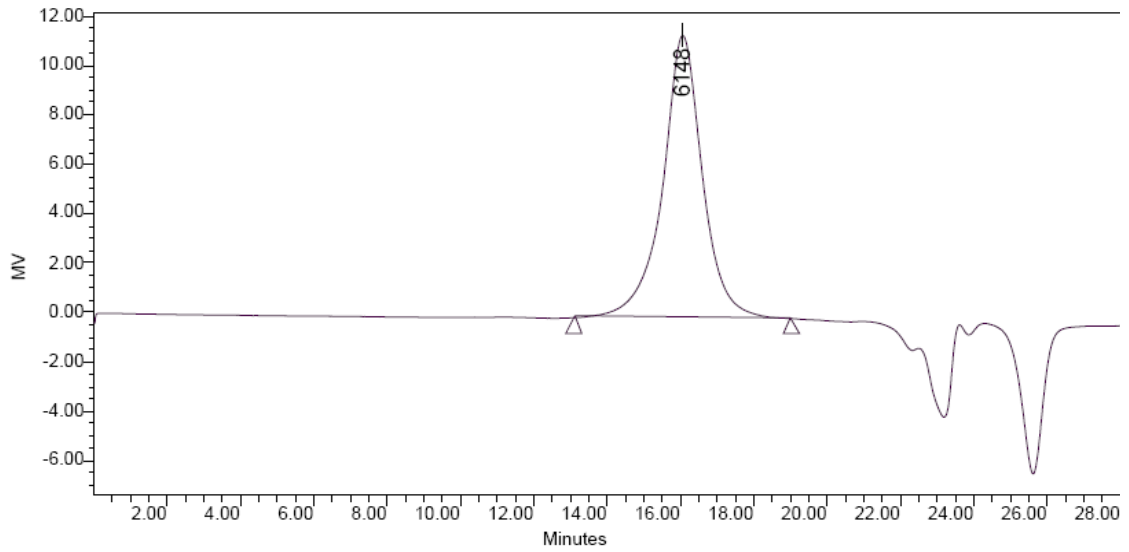


Items	Specification	Results
Appearance	Dark brown solid	Dark brown solid
¹ H NMR	Identical to the structure	Identical to the structure
Foreign Material	None	None
Substitution	>90%	>94%
PDI		<1.2

Report Date: 2016.08.26



Broad Unknown Modified Universal Chromatogram

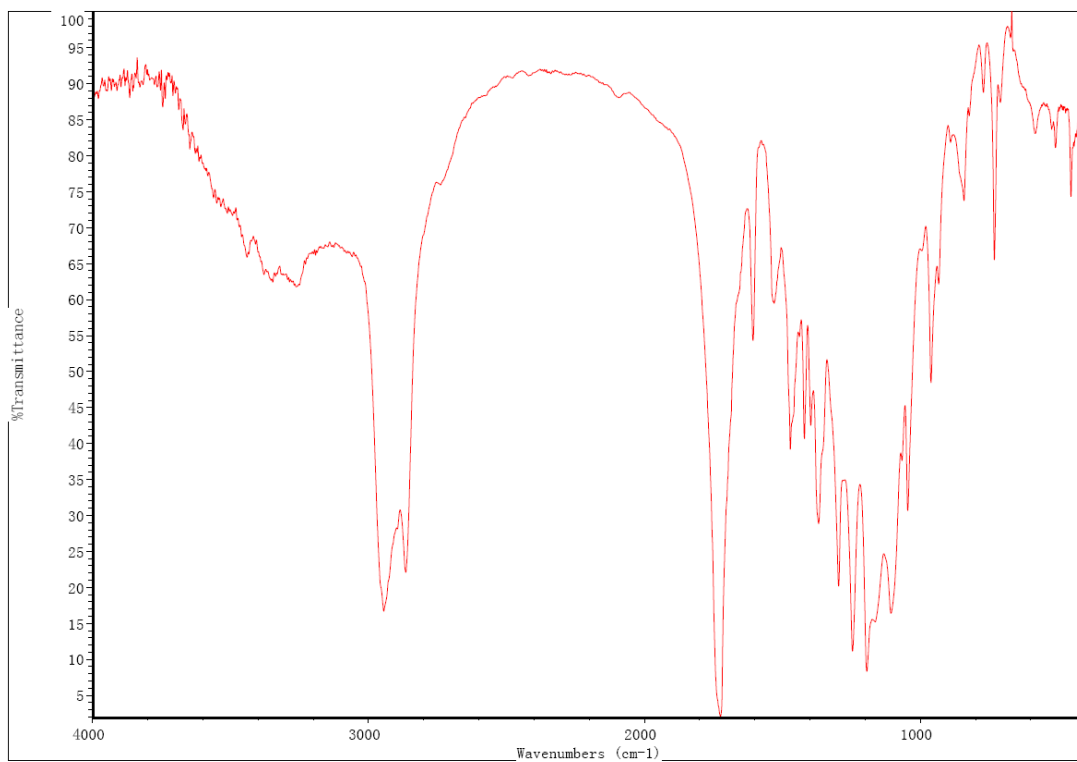


Broad Unknown Modified Universal Peak Table

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					5692	6485	6148	7380	8621	1.139350

Broad Unknown Modified Universal Peak Table

Mz/Mw	Mz+1/Mw	K (dl/g)	alpha	Intrinsic Viscosity (dl/g)
1.137933	1.329297			



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