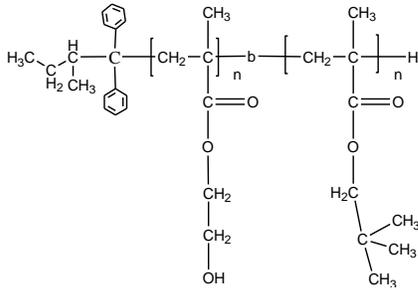


**Sample Name:** Poly (2-hydroxyethyl methacrylate-b-neopentyl methacrylate)

**Sample #:** P41171-HEMANPMA

**Structure:**



**Composition:**

$M_n \times 10^3$ HEMA-NPMA	Mw/Mn
6.0-b-160.0	1.15

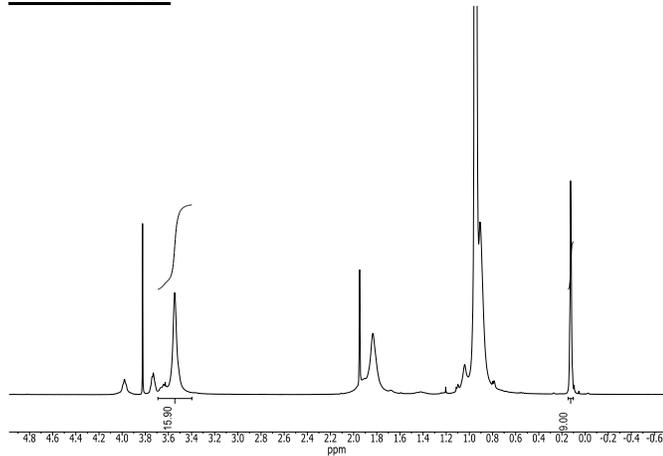
**Synthesis:**

The diblock copolymer was synthesized by anionic polymerization process, followed by hydrolysis under acidic condition.

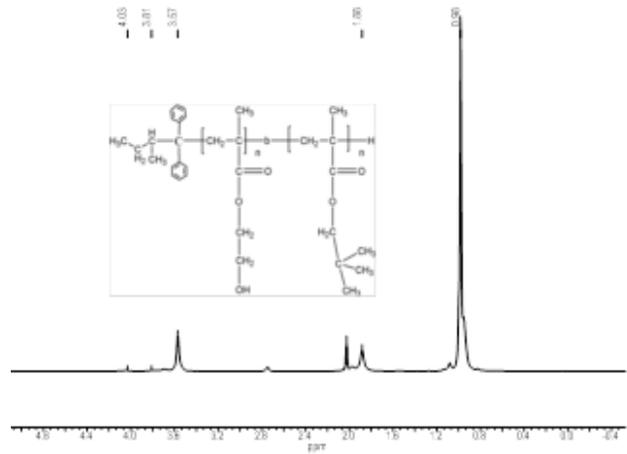
**Characterization:**

The polymer was characterized by  $^1\text{H-NMR}$  and size exclusion chromatography (SEC).

**$^1\text{H NMR}$  (500 MHz, in  $\text{CDCl}_3$ ) of NPMA-HEMATMS:**

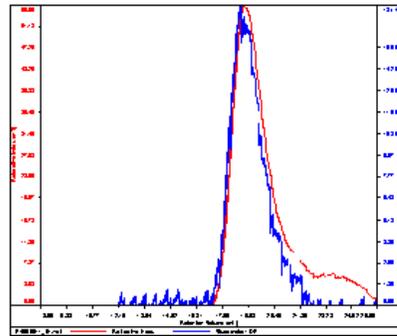


**$^1\text{H NMR}$  spectrum of the Sample:**



**SEC elugram of the first block HEMATMS:**

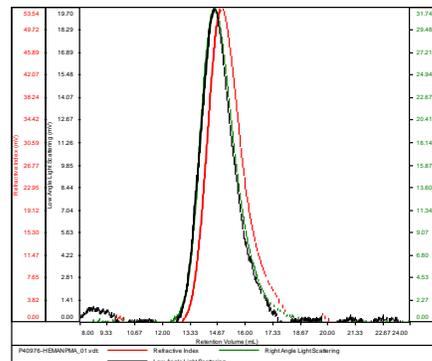
Conc.	0.0407
Mw/Mn	64666
Solvent	DMF w/ 0.023M LiBr
Flow Rate	0.7000
Method	PS800_2018-02-22-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
...	9,996	16,616	7,064	1.115	0.6917

**SEC elugram of the HEMA-b-NPMA:**

Conc.	0.2947
dn/dc	0.0850
Solvent	DMF w/ 0.023M LiBr
Flow Rate	0.7000
Method	PS800_2018-02-22-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40976-HEMANPMA_01.vct	166,572	189,568	175,485	1.138	0.3516