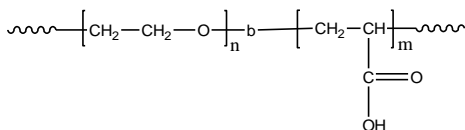


Sample Name: Poly (ethylene oxide -b- acrylic acid)

Sample #: P41493-EOAA

Structure:

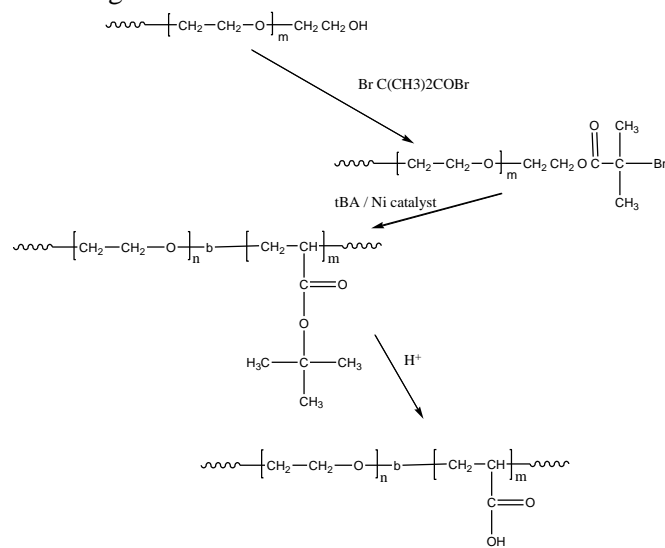


Composition:

Mn x 10 ³ PEO-b-PAA	PDI
14.0-b-35.0	1.07

Synthesis Procedure:

The polymer was prepared as presented on the following scheme:



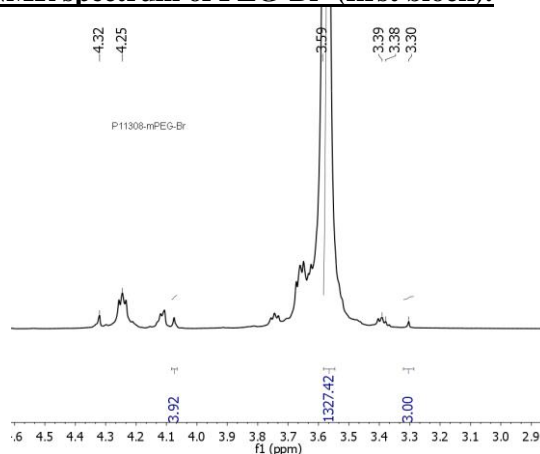
Characterization:

The final block copolymer composition was calculated from ¹H-NMR spectroscopy of poly (ethylene oxide -b- t-butyl acrylate) by comparing the peak area of the t-butyl acrylate protons at 1.43 ppm with the peak area of the ethylene oxide protons at 3.6 ppm, then transferred to the EOAA form accordingly. Copolymer PDI is determined by SEC of poly (ethylene oxide -b- t-butyl acrylate).

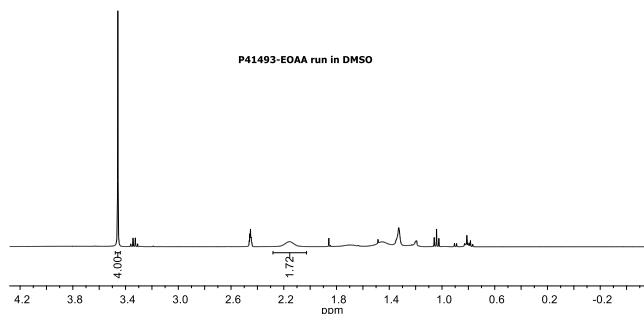
Solubility:

The polymer is soluble in methanol, water, THF and precipitated out from cold hexane or ether.

¹HNMR spectrum of PEG-Br (first block):



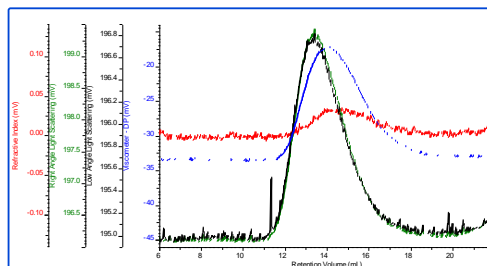
¹HNMR spectrum of EOAA sample runs in DMSO:



SEC elugram of the PEOtBuA before Hydrolysis:

P41493-EOtBuA

dn/dc	0.0570
Flow	0.7000
Solvent	DMF with LiBr
Method	PSS



Sample	Mn	Mw	Mz	IV	Mw/Mn
P41493-EOtBuA_1_2i	76,755	82,697	89,591	1.0000	1.077

After Hydrolysis of tBuA ester: PAA block:35,000