

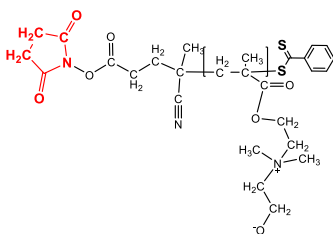
Product Profile

Identification

Product Name: Poly(carboxybetaine methacrylate), α -N-hydroxysuccinimdyl-terminated

Product Lot Number: P44917-CBMA-NHS

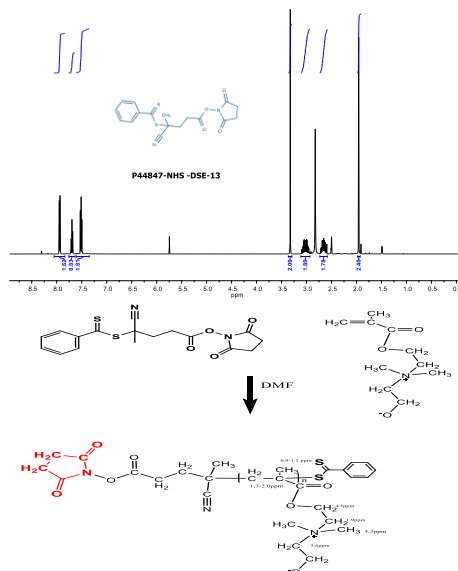
Product Chemical Architecture:



Composition:

Mn x 10 ³	Mw/Mn (PDI)
5.0	1.3

Method of Synthesis: By RAFT Process: Using following RAFT reagent



Solubility in different solvents

THF	X	Acetone	X
CHCl ₃	X	Methanol	√
Water	√		

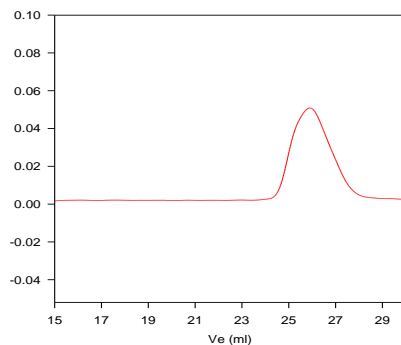
Purification of Polymer: By Soxhlet in Hexane to remove un-reacted RAFT reagent

Validation of Architecture:

A sample of PSBMA is eluted in aqueous system using buffer based on borate (0.025M) with disodium tetraborate, (0.025M) NaCl and 0.002M sodium phosphate dibasic, Ph=9.0 aqueous solution. Our columns are from Viscotek at flow rate 1 ml-1.

A. Gel Permeation Chromatography (GPC), SEC- Profile

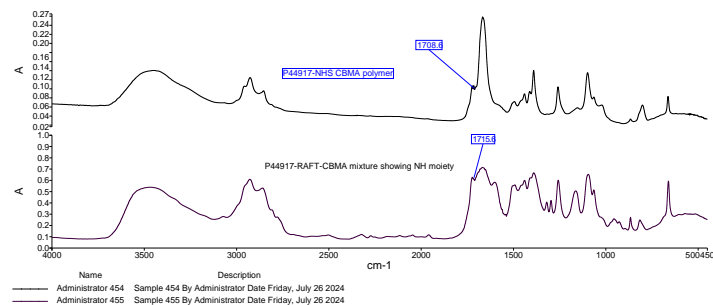
P44917-NHS-CBMA-AAPBA



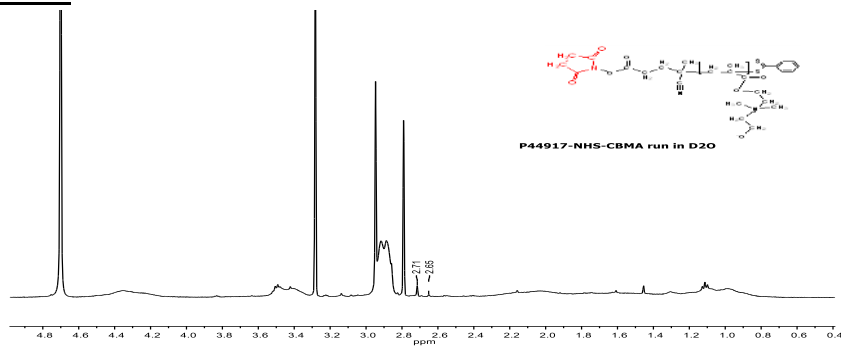
$M_n=5000$, $M_w=6800$, $PI=1.30$

B. FTIR showing the presence of NHS moiety

NHS moiety: Showing before polymerization at 1708 cm^{-1} , after polymerization it shows



C. HNMR in D2O



HNMR in DMSO

