

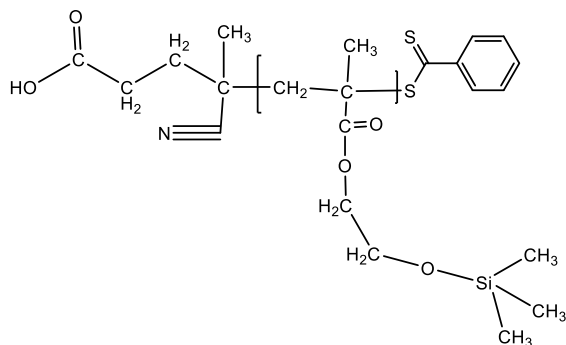
Product Profile

Identification

Product Name: Poly(2-hydroxyethyl methacrylate), ω -RAFT-terminated

Product Lot Number: P45364D-HEMATMS-RAFT

Product Chemical Architecture:

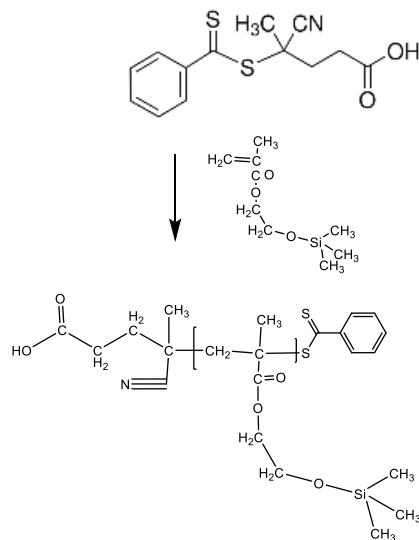


Composition:

Mn x 10 ³	Mw/Mn (PDI)
50.0	1.10

Method of Synthesis: By RAFT process

RAFT used in the process



Solubility in different solvents

THF	√	Methanol	√
CHCl ₃		DMF	√
Acetone	√	1-4 Dioxane	√

Purification of Polymer by Soxhlet.

Validation of Architecture:

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

The molecular weight and polydispersity index (PDI) of polymer is obtained by size exclusion chromatography in THF- with 4 % DMF. The columns were calibrated with polyethylene glycol.

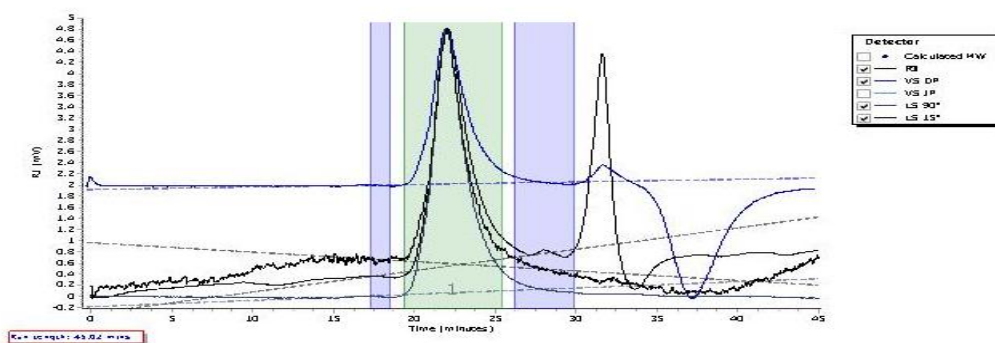
Agilent GPC/SEC Software



Agilent Technologies

Chromatogram Plot

P45364D-HEMATMS



V

B. NMR (HNMR) of polymer:

