

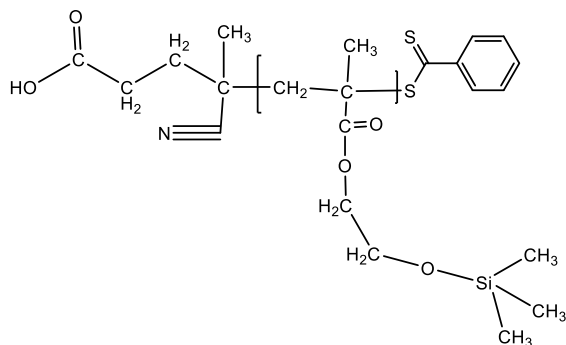
Product Profile

Identification

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

Product Lot Number: P45364B-HEMATMS-RAFT

Product Chemical Architecture:

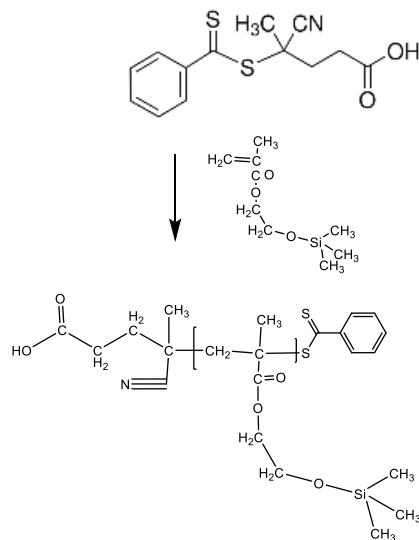


Composition:

Mn x 10 ³	Mw/Mn (PDI)
16.0	1.03

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.

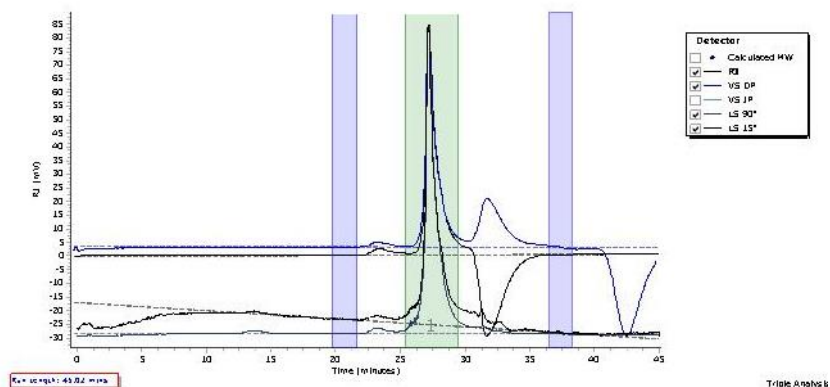
Validation of Architecture:

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.

Chromatogram Plot

P45634B-HEMATMSRAFT



Molecular Weight Averages

Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	18634	16430	16970	17461	17914	17305	1.033

B. NMR (HNMR) of polymer:

