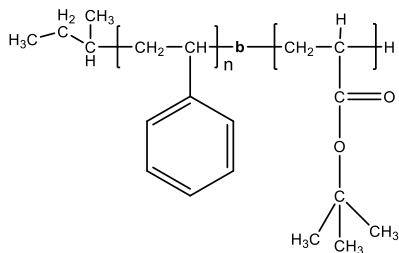


Sample Name: Poly (styrene-b- t.butylacrylate)

Sample #: P43542A-StBuA

Structure:



Composition:

Mn x 10 ³ S-b-tBuA	PDI
11.3-b-0.5	1.17

Dp S-b-tBuA: (107-b-5)

Synthesis Procedure:

Poly(styrene-b-tert.butyl acrylate) is prepared by living anionic polymerization in THF at -78 °C using sec.BuLi initiator adduct with α -methyl styrene in the presence of LiCl. For further details please see our published articles.¹⁻³

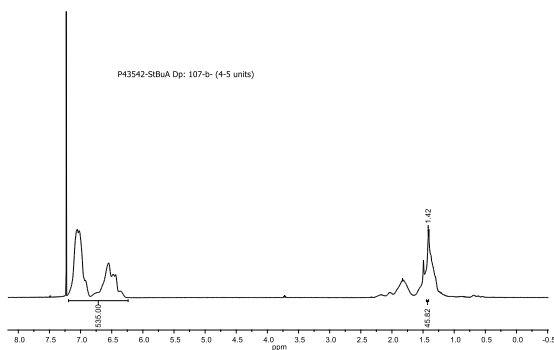
Characterization:

The product was characterized by size exclusion chromatography (SEC) and ¹H-NMR analysis.

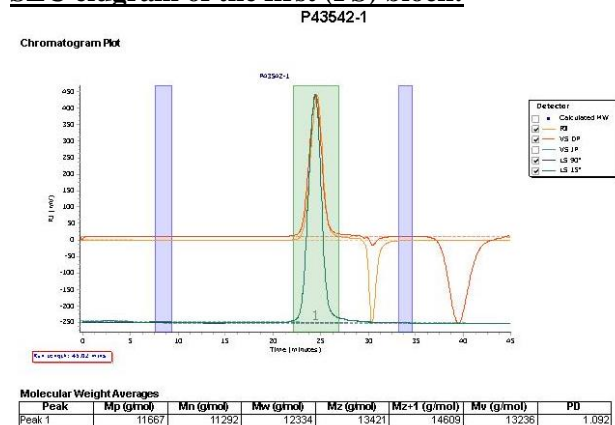
Solubility:

Poly (styrene-b-tert.butylacrylate) is soluble in THF, toluene, dioxane and CHCl₃.

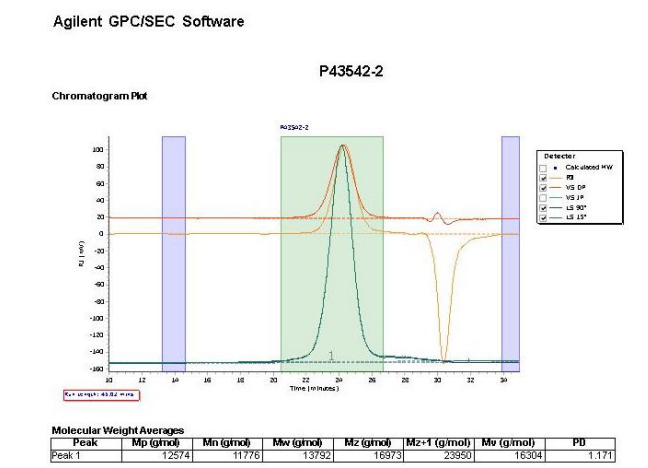
¹H-NMR spectrum of the PS-b-tBuA:



SEC elugram of the first (PS) block:



SEC elugram of the product (diblock copolymer):



References for further information:

1. Ph.Teyssie, R. Fayt, and S. K. Varshney, *Eur. Pat. Appl. Dec. 12, 1990. Eur. Pat.402204* Patent Assignees-Norsolor S.A. France. CA Vol 114, 20, 186314."Catalyst for the the Anionic Living Polymerization (Meth)acrylates".
2. Xing Fu. Zhong, S. K.Varshney, and A. Eisenberg "Critical Micellization Length for Polystyrene-b-Na-Acrylate Block Ionomers" CA Vol 117, 26, 252280 Macromolecules 1992, 25, 7160-7167.