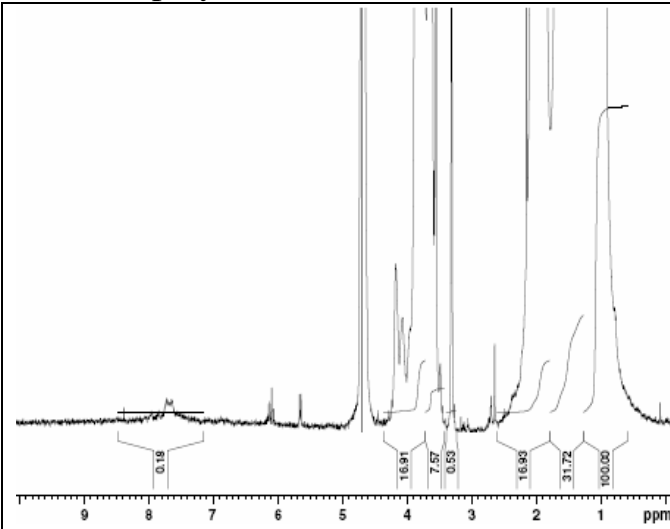


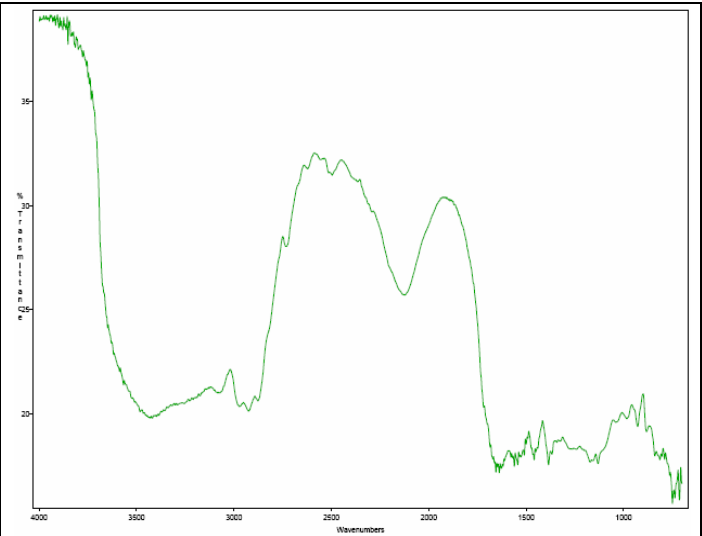
No. AO017

### Certificate of Analysis

Product Name: Poly(n-isopropylacrylamide-co-methoxy polyethylene glycol methacrylate(Mn 475Da)) copolymer (95:5) (REV:A structure)



H-NMR Spectrum of P(nipam-AA) copolymer in D<sub>2</sub>O (Varian Inova 300 MHz instrument)

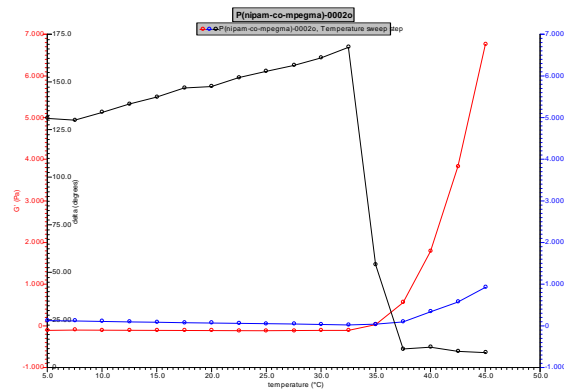


FTIR Analysis: Collected from a KBR pellet placed in Satellite FTIR (Thermo-Mattson) and analyzed in transmission mode.

#### Rheology

Rheology performed on AR550 (TA instruments) with 60mm 2degree cone on 1% w/v polymer in water dissolved overnight with stirring at 4C. Viscosity of solution at 0.1 (sec-1) and 5C was measured (1minute peak hold 5 second test intervals). Rheology performed by oscillating at constant 6.283 rad/s, 0.1% strain, in increments of 2.5C ranging from 5-45C with 3 minutes of temperature equilibration at each point.

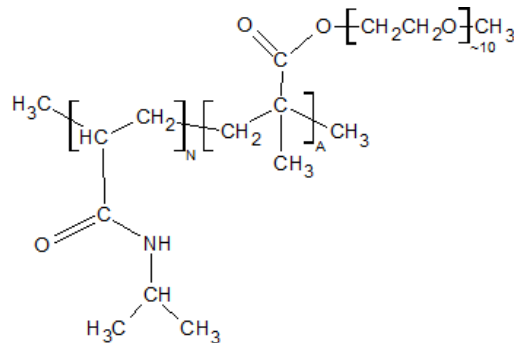
#### Rheology Chart



Viscosity 1% w/v solution at 5C

0.4300 Pa.s

#### Chemical Structure



Material provided for research use only. Not for human use.

PolySciTech Division of Akina, Inc. | 3495 Kent Avenue, West Lafayette, IN 47906  
 765-464-0390 | www.polysciotech.com

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