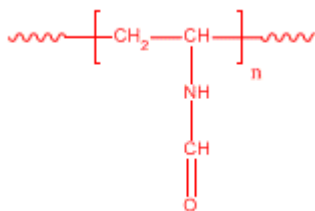


Sample Name:  
**Poly(N-vinyl formamide)**

Sample #: **P6365-NVF**

**Structure:**

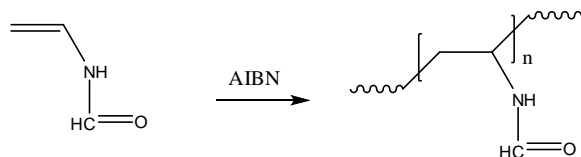


**Composition:**

$M_n \times 10^3$	PDI
9.6	1.88

**Synthesis Procedure:**

Polymer is obtained by free radical polymerization using AIBN as free radical initiator.



**Characterization:**

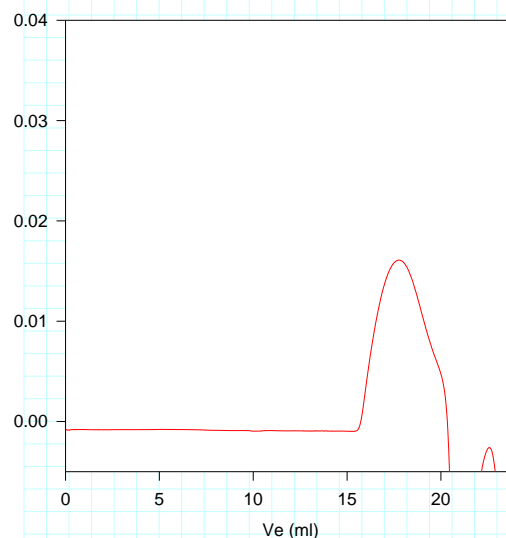
The molecular weight and polydispersity index (PDI) of polymer is obtained by size exclusion chromatography in water with 0.1M NaCl and 0.15 wt% of trifluoroacetic acid. The columns were calibrated with poly(ethylene glycol) standards.

**Solubility:**

Polymer is soluble in water, and precipitated out from hexane, ether, acetone, even pure methanol.

**SEC of Homopolymer:**

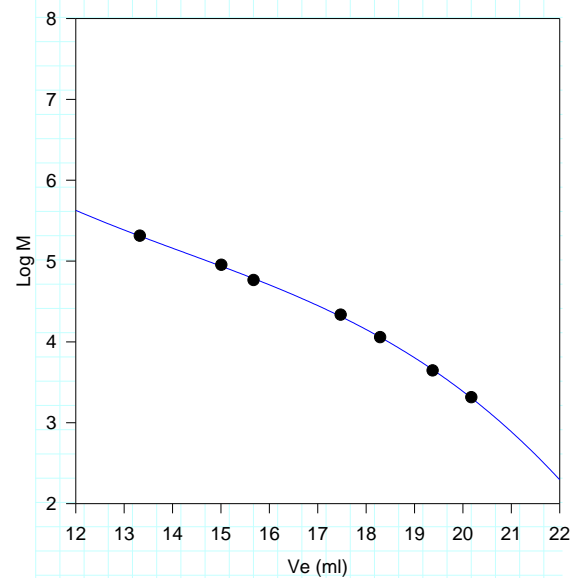
**P6365-NVF**



Size exclusion chromatography of poly(N-vinyl formamide)  
(with respect to poly(ethylene glycol) standards; Eluent: water with 0.1M NaCl)  
 $M_w=9600$ ;  $M_n=18100$ ;  $M_w/M_n=1.88$

**Calibration with PEGs**

**Calibration Curve-H2O**  
**(0.1M NaCl + 0.15%TFA)**  
**Aug-04-2006**



Calibration of SEC columns with poly(ethylene oxide) standards

Coefficients:  
 $b[0]=15.1316149127$   
 $b[1]=-1.6695004384$   
 $b[2]=0.1016326483$   
 $b[3]=-2.3758487393e-3$   
 $r^2=0.9995985048$