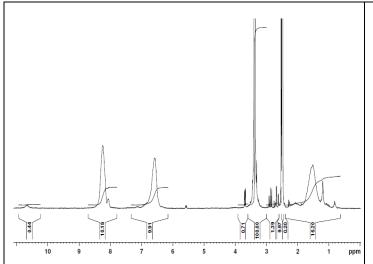
No. AI70

Certificate of Analysis

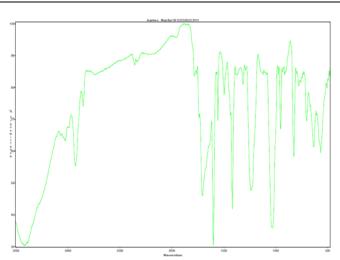
Product Name: Poly(4-vinylpyridine)-N-Hydroxysuccinimide-Sulfa (P4VP-NHS-Sulfa)(IV

0.01-0.1) (Lot#: 40328JSG)





H-NMR Spectrum of P4VP-NHS-Sulfa copolymers in DMSO-D6 (Varian Inova 300 MHz instrument)



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

• Viscosity in Ethanol

Method: 2g/dL solution of P4VP-COOH precursor dissolved in USP grade ethanol and viscosity tested using a Cannon mini-viscometer (C286) in a 30C water bath. Average of 2 times taken and viscosity compared to literature reported values for pure ethanol at 30C to obtain inherent viscosity. Data shown as average \pm 95% confidence.

P4VP-NHS-Sulfa Inherent	0.069 ± 0.036
Viscosity in Ethanol (30C)	

• Structure of P4VP-NHS-Sulfa copolymers

$$H_3C-(CH_2)_{11}$$
 $S-C$ CH_2 H_3C CH_3 $CH_$