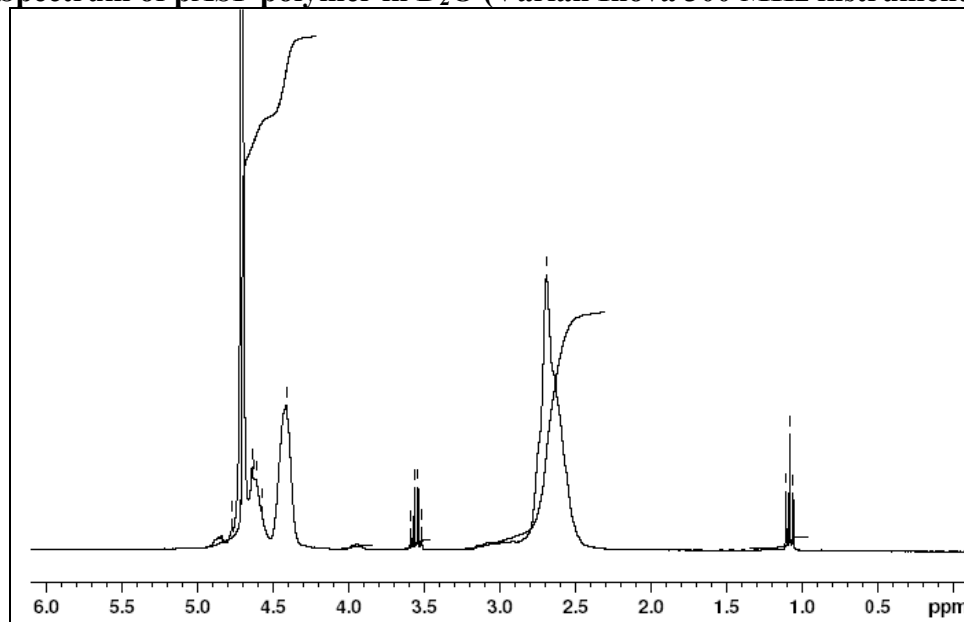


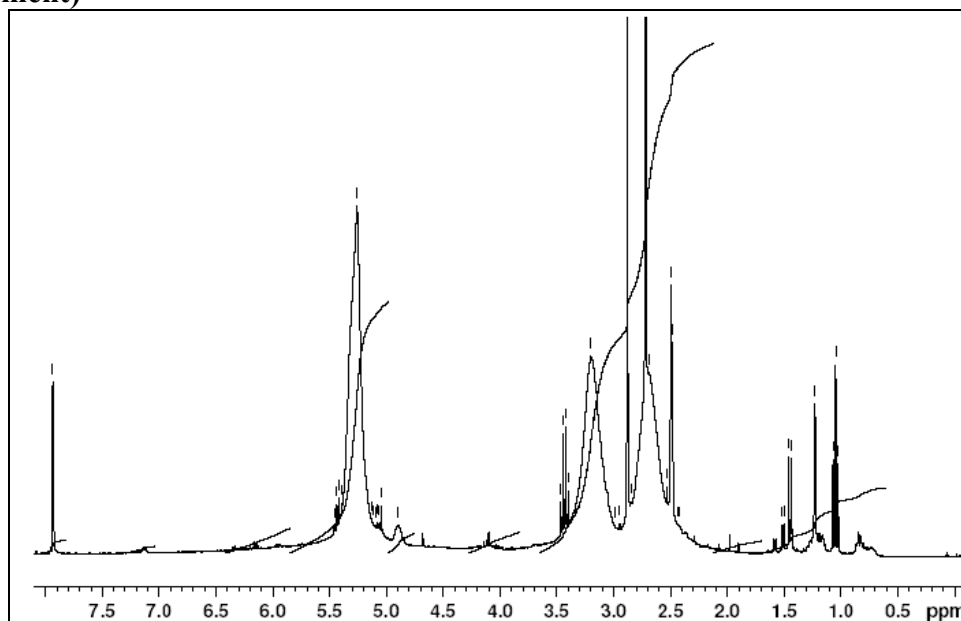
No. ASP1 Certificate of Analysis

Product Name: Poly(Aspartic acid) (pASP) polymer (HCl)

- ¹H-NMR Spectrum of pASP polymer in D₂O (Varian Inova 300 MHz instrument)**



- ¹H-NMR Spectrum of polysuccinimide precursor polymer in deuterated DMSO (Varian Inova 300 MHz instrument)**



- Inherent Viscosity (IV) of polysuccinimide precursor**

Analysis Method: testing performed with a Cannon-Manning Ubbelohde type Semi-Micro calibrated viscometer (size 50 No C286). Sample was 3 x 0.5 ml of 1g/dl PSI in DMF tested at 25°C. Each sample IV determined in triplicate. Values shown are mean ± 95% confidence (t-test).

Polymer	Inherent Viscosity (g/dl)	Molecular Weight ¹ (kDa)
Polysuccinimide	0.12 ± 0.005	21.0 ± 1.4

1. IV/Molecular Weight Correlation obtained from: United States Patent 5484945 Akinori Nagatomo (et. al. Kanagawa JP): "Preparation process of polysuccinimide" August 10, 1994.