NW Rose FF series HIC

Hydrophobic interaction chromatography (HIC) resins

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Hydrophobic interaction chromatography (HIC) utilizes reversible interactions between proteins and HIC resins to separate proteins based on their different hydrophobicity.
The NW Rose FF (Fast Flow) HIC series HIC resin is made by high flow rate agarose microspheres coupled with different functional groups, including:

- High substituent phenyl HIC resin: NW Rose Phenyl FF HS
- Low substituent phenyl HIC resin: NW Rose Phenyl FF LS
- Octyl HIC resin: NW Rose Octyl FF
- Butyl HIC resin: NW Rose Butyl FF

The hydrophobicity of these resins from strong to weak:

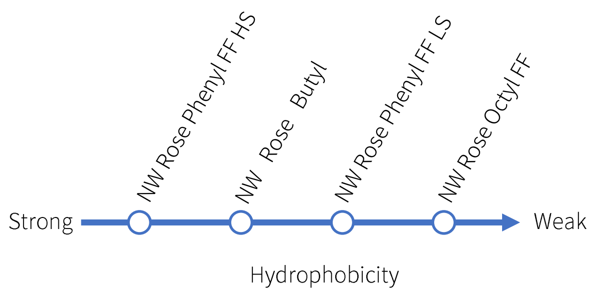

Table 1. The characteristics of NW Rose FF series HIC resins.

Product name	NW Rose Phenyl FF HS	NW Rose Phenyl FF LS	NW Rose Octyl FF	NW Rose Butyl FF
Matrix	Highly cross-linked, rigid agarose beads with dextran surface extenders.			
Ligand	Phenyl	Phenyl	Octyl	Butyl
Particle Size	45-165 μm			
DBC (BSA)	＞50 mg·mL^{-1}	＞30 mg·mL^{-1}	＞25 mg·mL^{-1}	＞20 mg·mL^{-1}
Maximum Pressure	0.3 MPa			
Clean in Place	0.5 M NaOH			
Recommended Flow Velocity	200-300 cm/h (50/30 Column, bed height 10 cm)			
Maximum flow velocity	600 cm/h (0.1MPa, XK26/30 column, bed height 15 cm, 25°C)			
pH stability	2-12 (operational), 2-14 (CIP)			
Chemical stability	Stable in commonly used aqueous buffers, 0.1 M NaOH, 30% isopropyl alcohol, 6 M guanidine hydrochloride, 8 M urea, 70% ethanol, etc.			
Operational temperature	4-40 °C			
Storage	20% ethanol, 4-30 °C			