

Phenyl Cellulose resin

Cat. No. Phenyl-001C **Lot. No.** (See product label)

SPECIFICATION

Product Overview Phenyl Cellulose is useful for the chromatography of hydrophobic proteins. Many proteins have hydrophobic amino acid residues which will interact with the phenyl, butyl and octyl functional groups. Factors that influence this hydrophobic interaction include salt concentration, temperature, pH, organic solvents and surfactants. Protein adsorption usually occurs at high ionic strength, while elution occurs at lower salt concentrations. This is the opposite of ion exchange chromatography and complementary.

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Characteristics 1. Spherical particles exhibiting high mechanical strength 2. Virtually no shrinkage or swelling 3. Stable in organic solvents and surfactants 4. Stable coupling chemistry 5. Resistant to 0.2 M NaOH

Form suspension in 20 % EtOH

Matrix cellulose

Functional group Phenyl group

Average particle size 40 – 130 µm

Chemical stability pH 2 – 13, when operated at room temperature. Stable in most salts (NaCl, (NH₄)₂SO₄, etc.) and most detergents (SDS, Tween, Chaps, etc.) Can be cleaned using 0.2 N NaOH. Autoclavable in suspension at neutral pH for 20 minutes at 121°C.

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Autoclavable	121°C for 15 min in distilled water
Shelf life	5 years from date of manufacture

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