

# 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, (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>, 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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|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Physical stability</b> | pH 2 – 13, when operated at room temperature. Stable in most salts (NaCl, (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> , 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. |
| <b>Autoclavable</b>       | 121°C for 15 min in distilled water                                                                                                                                                                                                                                                |
| <b>Shelf life</b>         | 5 years from date of manufacture                                                                                                                                                                                                                                                   |

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