

Phenol, Saturated (pH 4.5), 100ml**PG-1890-500ML**

Phenol, Saturated (pH 4.5) is a molecular biology-grade reagent specifically formulated for RNA extraction and purification applications. The acidic pH promotes the selective partitioning of RNA into the aqueous phase while DNA and proteins preferentially partition into the organic phase or interphase during extraction. This reagent is widely used in RNA isolation protocols, including phenol-chloroform extraction and guanidinium thiocyanate-based methods.

Parameter Specification**Product Name** Phenol, Saturated (pH 4.5)**Chemical Formula** C_6H_5OH **Molecular Weight** 94.11 g/mol**Appearance** Clear, colorless to pale yellow liquid**pH** 4.3 – 4.7**Saturation Medium** Citrate Buffer**Purity** $\geq 99.0\%$ **RNase Activity** None Detected**DNase Activity** None Detected**Protease Activity** None Detected**CAS Number** 108-95-2**Storage:** Store at 2–8°C**Safety**

Harmful if inhaled, swallowed, or absorbed through skin. Suspected carcinogen. May cause liver, kidney, and central nervous system damage following prolonged or repeated exposure. Use in a well-ventilated area and wear appropriate PPE including gloves, lab coat, and safety goggles. Avoid contact with skin, eyes, and clothing. Store away from heat and incompatible materials.