

Glycine, 1KG**PG-7610-1KG**

Glycine is the simplest amino acid and an essential reagent widely used in molecular biology, biochemistry, cell culture, protein research, electrophoresis, and pharmaceutical applications. It serves as a buffering agent, protein stabilizer, nutrient supplement, and key component in electrophoresis buffers such as SDS-PAGE running buffer and transfer buffer. Due to its zwitterionic nature, glycine plays an important role in maintaining physiological pH and supporting various biochemical reactions.

Parameter Specification**Product Name** Glycine**Chemical Name** Aminoacetic Acid**Molecular Formula** $\text{C}_2\text{H}_5\text{NO}_2$ **Molecular Weight** 75.07 g/mol**Appearance** White crystalline powder**Assay** $\geq 99.0\%$ **Solubility** Freely soluble in water**pH** (5% Solution) 5.5 – 7.0**Loss on Drying** $\leq 0.5\%$ **Residue on Ignition** $\leq 0.1\%$ **Heavy Metals** ≤ 10 ppm**Chloride (Cl^-)** $\leq 0.02\%$ **Sulfate (SO_4^{2-})** $\leq 0.02\%$ **CAS Number** 56-40-6**Storage:** RT**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.