

BORIC ACID, 1Kg**PG-8850-1KG**

Boric Acid is a high-purity inorganic compound widely used in molecular biology, biochemistry, electrophoresis, microbiology, and analytical laboratories. It serves as a key component of TBE (Tris-Borate-EDTA) buffer systems for nucleic acid electrophoresis and is commonly employed in buffer preparation, pH control, and various research applications.

Parameter Specification**Product Name** Boric Acid**Chemical Name** Orthoboric Acid**Molecular Formula** H_3BO_3 **Molecular Weight** 61.83 g/mol**Appearance** White crystalline powder or colorless crystals**Purity** $\geq 99.5\%$ **Solubility** Soluble in water and alcohol**pH (0.1 M Solution)** 5.0 – 6.5**CAS Number** 10043-35-3**Storage** Store at room temperature (15–30°C) in a tightly closed container.**Condition** Protect from moisture.

Applications / Uses: Preparation of TBE Buffer (Tris-Borate-EDTA), DNA and RNA Agarose Gel Electrophoresis, Buffer Preparation, Biochemical Assays, Microbiology Media Preparation, Protein Analysis Applications, Analytical Chemistry, Laboratory Reagent Formulations etc

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.