

Guanidine Thiocyanate,500g**PG-0830-500G**

Guanidine Thiocyanate is a strong chaotropic agent widely used in molecular biology and biochemistry for the extraction and purification of nucleic acids. It effectively denatures proteins and inactivates RNases and DNases, making it an essential component of RNA and DNA isolation reagents and cell lysis buffers. Store at room temperature in a dry environment and handle using appropriate laboratory safety precautions.

	Details
Product Name	Guanidine Thiocyanate
Description	A highly effective chaotropic agent used for protein denaturation, cell lysis, and inactivation of nucleases during nucleic acid extraction and purification procedures. Commonly employed in RNA and DNA isolation protocols and molecular biology reagents.
Molecular Weight	118.16 g/mol
Appearance	White crystalline powder
Formula	CH ₅ N ₃ S
Solubility	Freely soluble in water
pH	Approximately 4.5–7.0 (6 M aqueous solution)
CAS Number	593-84-0
Storage Condition	Store at 15–30 °C in a tightly closed container. Protect from moisture, heat, and direct sunlight.
Applications / Uses	Used for RNA and DNA extraction, cell and tissue lysis, protein denaturation, RNase and DNase inactivation, molecular biology research, diagnostic reagent preparation, and nucleic acid purification workflows.
Safety	.

Harmful if swallowed or inhaled. Causes skin and eye irritation. Avoid breathing dust and contact with skin, eyes, and clothing. Wear appropriate PPE including gloves, lab coat, and safety goggles. Handle in a well-ventilated area .