

Guanidine Thiocyanate

Product Information

Product Name: Guanidine thiocyanate

CAS Number: 593-84-0

Molecular Formula: CH₅N₃HSCN

Molecular Weight: 118.16

EC Number: 209-812-1

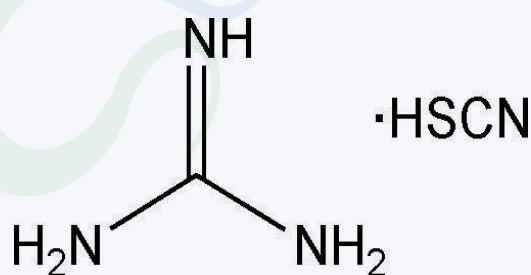
Appearance: White powder

Packing: 25kg/drum

Storage: Store at RT. Protect from moisture

Function: molecular biology

Application: RNA isolation, DNA extraction, PCR inhibitor

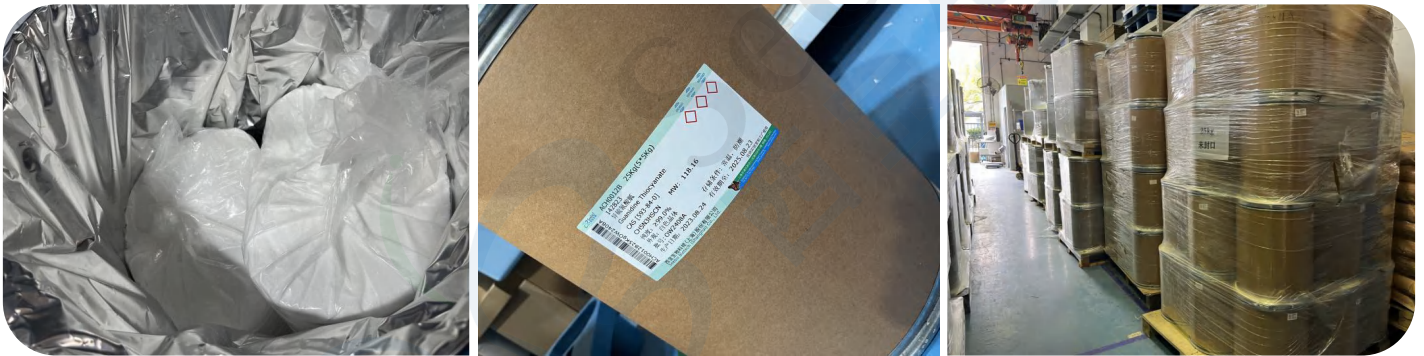


Product Introduction

Guanidine thiocyanate (also known as guanidine isothiocyanate or GITC) is a potent protein denaturant widely utilized to deactivate endogenous RNases during RNA isolation from diverse tissues and bacteria. When combined with acid-balanced phenol or phenol:chloroform, solutions containing guanidine thiocyanate and beta-mercaptoethanol effectively disrupt cytoplasmic and nuclear membranes while preserving RNA integrity. Additionally, it functions as a storage buffer for blood samples.

Applications

1. Efficiently extract RNA from tissue cells and serum samples, perfect for denaturing nucleic acids and isolating RNA.
2. Serve as a storage buffer for whole blood samples.
3. Formulate RNA lysis stabilization buffer for lysing colorectal cancer cell lines before RNA isolation.
4. Deactivate nucleases, making it ideal for storing and freezing stool samples for DNA research.
5. Act as a PCR inhibitor in mitochondrial DNA (mtDNA) qPCR reaction systems.
6. Utilize for qPCR analysis of DNA extracted from cerebrospinal fluid (CSF).



Service Hotline: 400-021-8158

International Market: www.allinno.com

Website: www.seebio.com/ www.seebio.cn

E-mail: [foodadd@seebio.cn/](mailto:foodadd@seebio.cn) [finechem@seebio.cn/](mailto:finechem@seebio.cn) [sales@seebio.cn/](mailto:sales@seebio.cn) market@seebio.cn

Address: Building 5, No. 508 Chuanhong Road, Pudong, Shanghai 201202, P.R.China

