

6M Guanidine thiocyanate

<u>Product Name</u>	<u>Product Code</u>	<u>Kit Packing</u>
6M Guanidine thiocyanate	ML003-100ML ML003-500 ML	100 ml 500 ml

Introduction: Guanidinium thiocyanate is a chaotropic agent. This is also called guanidine thiocyanate because guanidinium is the conjugate acid of guanidine and is called the guanidinium cation.

Description: Guanidinium thiocyanate is a strong chaotropic agent and a strong protein denaturant as it inactivates nucleases almost 2.5 times faster than Guanidine hydrochloride. 6M Guanidinium thiocyanate solution is a ready to use solution which can be easily used for various molecular biology applications.

Application: 6 M Guanidinium thiocyanate solution is used as a protein denaturant in molecular biology and commonly used for the isolation of intact RNA due to its ability to inhibit RNase activity. It is also used for lysis of cells and virus particles. It prevents the activity of RNase enzymes and DNase enzymes by denaturing them. For this reason it is used in RNA and DNA extractions. In the presence of guanidine thiocyanate, proteins dissolve readily, cellular structures disintegrate and nucleoproteins dissociate from nucleic acids, due to the loss of protein secondary structure.

Composition: 6M Guanidine thiocyanate solution is made from highly pure molecular biology grade Guanidine thiocyanate and conveniently premixed to save time.

Properties:

Appearance	:	Colorless solution
Clarity	:	Clear and free of particles
pH	:	4.5 – 7.0
DNase & RNase	:	None detected
Bioburden	:	None detected
Suitability test	:	This solution has been tested and is suitable for use

Storage conditions: The 6M Guanidine thiocyanate solution has to be stored at room temperature (15 - 25 °C).

Technical Assistance

At HiMedia we pride ourselves on the quality and availability of our technical support. For any kind of technical assistance, mail at mb@himedialabs.com.

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ML003-01

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