

8M Guanidine HCl

<u>Product Name</u>	<u>Product Code</u>	<u>Kit Packing</u>
8M Guanidine HCl	ML002-100ML	100 ml
	ML002- 500 ML	500 ml

Introduction: Guanidine hydrochloride is a strong chaotropic agent which helps to solubilize hydrophobic proteins and peptides by disrupting the structure of water interactions. This strong denaturant can solubilize insoluble or denatured proteins such as inclusion bodies which are isolated during cell lysis. It denatures native proteins and thus inactivates RNases and proteases.

Description: 8M Guanidine HCl solution is a ready to use solution which can be easily diluted and pH adjusted to any concentration below 8M. When proteins are expressed in bacterial systems they precipitate inside the cells in inclusion bodies. Guanidine hydrochloride dissolves these inclusion bodies and releases the proteins into solution. Finally, the proteins are refolded to their active form by removal of the Guanidine hydrochloride by dialysis.

Application: 8M Guanidine-HCl Solution is an accurately formulated, ready-to-use solution of Guanidine hydrochloride. It is used in the isolation of RNA. Moreover, 8M Guanidine HCl solution is used to denature native globular proteins either by disrupting the hydrogen bonds which hold the protein in its unique structure or through disruption of hydrophobic interactions by promoting the solubility of hydrophobic residues in aqueous solutions.

Composition: 8M Guanidine Hydrochloride solution is made from highly pure molecular biology grade Guanidine hydrochloride and conveniently premixed to save time.

Properties:

Appearance	:	Colorless solution
Clarity	:	Clear and free of particles
pH	:	4.5 – 6.0
DNase & RNase	:	None detected
Bioburden	:	None detected
Suitability test	:	This solution has been tested and is suitable for use in variety of Molecular Biology applications.

Storage conditions: The 8M Guanidine HCl 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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ML002-01



Registered Office :

23, Vadhani Industrial Estate, LBS Marg,
Mumbai - 400 086, India.
Tel. : (022) 4017 9797 / 2500 1607
Fax : (022) 2500 2286

Commercial Office

A-516, Swastik Disha Business Park,
Via Vadhani Indl. Est., LBS Marg,
Mumbai - 400 086, India

Tel: 00-91-22-6147 1919
Fax: 6147 1920, 2500 5764
Email : info@himedialabs.com
Web : www.himedialabs.com