6M Guanidine HCl

Product Name	Product Code	Kit Packing
6M Guanidine HCl	ML001-100ML	100 ml
	ML001-500 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: 6M Guanidine HCl solution is a ready to use solution which can be easily diluted and pH adjusted to any concentration below 6M. 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: 6M Guanidine hydrochloride solution is used for solubilizing proteins from inclusion bodies or denaturing native globular proteins 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. This solution is also used in the isolation of RNA.

Composition: 6M 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

Storage conditions: 6M Guanidine hydrochloride solution has to be stored at room temperature (15 - 25 $^{\circ}$C).

Technical Assistance

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