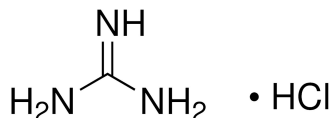


Certificate of Analysis

Product Name : Guanidine hydrochloride Molecular Biology, ≥99%
Product Number : G3272-VAR
Batch Number : 0000456140
 Source Batch : 0000445091
 CAS Number : 50-01-1
 MDL Number : MFCD00013026
 Molecular Formula : $\text{CH}_5\text{N}_3 \cdot \text{HCl}$
 Formula Weight : 95.53 g/mol
 Expiry Date : Mar 2027
 Quality Release Date : 16 May 2025

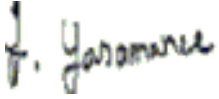


Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Crystalline Powder	Crystalline Powder
Solubility (Color)	Colorless	Colorless
Solubility (Turbidity)	Clear	Clear
at 6 M in H ₂ O (286 g to 500 ml)		
Infrared Spectrum	Conforms to Structure	Conforms
Water (by Karl Fischer)	≤ 0.3 %	0.0 %
UV Absorbance 280nm	≤ 0.05	0.00
6 M solution		
UV Absorbance 290nm	≤ 0.05	0.00
6 M solution		
A260 UV Absorption	≤ 0.10	0.01
6 M solution		
Lead (Pb)	≤ 5 ppm	< 5 ppm
DNase, Exonuclease Detection	None Detected	None Detected
RNase Detection	None Detected	None Detected
Titration with AgNO ₃	≥ 99 %	100 %
Based on Cl content		

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchase must determine the suitability of the product for its particular use. See reverse side of website or packing slip for additional terms and conditions of sale



Product G3272-VAR
Batch 0000456140



Jagodige Yasomanee, Supervisor

Quality Assurance

St. Louis, Dekalb

US

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Version Number: 2 Doc: 1225209

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