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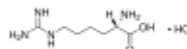
Outside USA: eurtechserv@sial.com

Product Name:

# Certificate of Analysis

L-Homoarginine hydrochloride - unnatural arginine analog

**Product Number:** H1007  
**Batch Number:** MKCD6690  
**Brand:** SIGMA  
**CAS Number:** 1483-01-8  
**MDL Number:** MFCD00012622  
**Formula:** C<sub>7</sub>H<sub>16</sub>N<sub>4</sub>O<sub>2</sub> · HCl  
**Formula Weight:** 224.69 g/mol  
**Quality Release Date:** 14 AUG 2017  
**Recommended Retest Date:** JUL 2022



Test	Specification	Result
Appearance (Color)	White to Off-White	White
Appearance (Form)	Powder	Powder
Infrared Spectrum	Conforms to Structure	Conforms
Water (by Karl Fischer)	≤ 4 %	1 %
0.5 mol/mol		
Carbon (anhydrous)	36.7 - 38.2 %	37.4 %
Nitrogen (anhydrous)	24.4 - 25.4 %	24.8 %
Specific Rotation	15 - 20 °	18 °
C = 1, 1 M HCl, 25 deg C		
Purity (TLC)	≥ 98 %	> 99 %
Solubility (Color)	Colorless to Faint Yellow	Colorless
Solubility (Turbidity)	Clear to Slightly Hazy	Clear
50 mg/ml, H <sub>2</sub> O		
Recommended Retest Period	-----	-----
5 years		

Michael Grady, Manager  
 Quality Control  
 Milwaukee, WI US

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. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.