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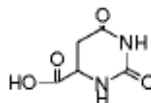
Email USA: techserv@sial.com

Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
DL-Dihydroorotic acid

Product Number: D7003
Lot Number: SLBC9894V
Brand: SIGMA
CAS Number: 6202-10-4
MDL Number: MFCD00006030
Formula: C₅H₆N₂O₄
Formula Weight: 158.11 g/mol
Quality Release Date: 24 MAY 2012



| Test | Specification | Result |
|----------------------------|---------------------------|-------------------|
| Appearance (Color) | White to Off-White | White |
| Appearance (Form) | Powder | Powder |
| Solubility (Color) | Colorless to Faint Yellow | Very Faint Yellow |
| Solubility (Turbidity) | Clear | Clear |
| 50 mg/mL, DMF | | |
| Infrared spectrum | Conforms to Structure | Conforms |
| Purity (Titration by NaOH) | ≥ 97.5 % | 98.5 % |
| Purity (TLC) | ≥ 98 % | 100 % |

Rodney Burbach, Manager
Analytical Services
St. Louis, Missouri 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.