

Certificate of Analysis

Product Description: N-Acetyl-L-arginine Dihydrate
Catalog Number: 100078
Lot: S6583

Formula: C₈H₁₆N₄O₃·2H₂O
CAS #: 210545-23-6
Physical Description: White Powder

Formula Weight: 252.27
Storage: -0°C

Test	Specification	Result
Identity Test	Passes	Passes
FTIR	Conforms to Standard	Conforms to Standard

Purity (TLC): >99%
Related Impurities (TLC): <0.1% H-Arg-OH
D-enantiomer Content (chiral chromatography): <0.10%
Assay (elemental analysis): 85.8% (Nth 25.91%, Nfd 22.24%)
Water Content (KF): 14.1%
Sodium (AAS): <10 ppm
Ammonium (IC): <0.01%
Acetic Acid (IC): <0.04%
Residual Organic Solvents (GC):
- Ethanol: 785 ppm
- Isopropanol (LOD): <13 ppm
- Isopropylether: 75 ppm
- Triethylamine (LOD): <42 ppm
Mass Balance: 99.9%
Recommended Retest Date (MM/DD/YYYY):07/08/2023



07/09/2021 - John Huang, PhD
MP Biomedicals, LLC.
Quality Control Manager

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