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Certificate of Analysis

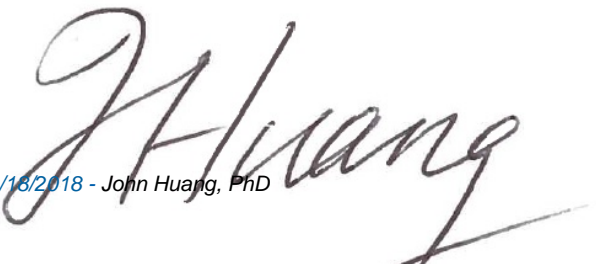
Product Description: N-alpha-Benzoyl-L-arginine p-Nitroanilide Hydrochloride_
Catalog Number: 154829_
Lot: Q9249_

Formula: C₁₉H₂₂N₆O₄·HCl
CAS #: 21653-40-7
Physical Description: Off-white Powder

Formula Weight: 434.9
Storage: -20°C

Test	Specification	Result
Identity Test	Passes	Passes
FTIR	Conforms to Standard	Conforms to Standard
Melting Point	219 - 229°C	223.9 - 225.2°C
Optical Rotation	Report Result	+14.1° (1% in MeOH)

Solubility (50 mg/ml in MeOH): Clear and slight yellow solution
Purity (TLC): >99%
Related Impurities (TLC): <0.1%pNA (p-Nitroaniline)
TLC conditions: n-butanol/acetic acid/H₂O=4/2/2
ethylacetate/pyridine/acetic acid/H₂O=60/20/6/11
chloroform/methanol/acetic acid 32%= 5/3/1
plate: silicagel 60 F254
detected by: UV, ninhydrin, TMB
D-Enantiomer Content (GC): 0.10%
Assay (Elemental Analysis): 100.1% (Nth 19.32%, Nfd 19.34%)
Chloride Content (AgNO₃ titr): 8.4%
Water content: 0.2%
Recommended Retest Date: 10/22/2022


05/18/2018 - John Huang, PhD

MP Biomedicals, LLC.
Quality Control Manager

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<http://www.mpbio.com>

Online Ordering, MSDSs, certificates of analysis and data sheets now available on our web site

Technical Service: 1-800-279-5490 (440-337-1200) Customer Service: 1-800-854-0530 (440-337-1200)