



INDOFINE Chemical Company, Inc.

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Certificate of Analysis

Catalogue Number	BIO-781
Product	3,3'-Diaminobenzidine tetrahydrochloride hydrate
Lot Number	001690-2012121001
CAS Number	868272-85-9, 167684-17-5
Molecular Formula	$C_{12}H_{14}N_4 \cdot 4HCl \cdot H_2O$
Molecular Weight	378.13

Appearance	Gray or dark red crystalline powder
Solubility	Clear solution (1% aqueous)
Water Content (Karl Fisher)	6.4%
Insoluble	Water insolubles: < 0.01%
Purity by HPLC	98.39%
Storage	Store at ≤ -20 °C

Prepared by:

Ramesh Mandadi

Ramesh Mandadi
Director of Operations

Reviewed and approved by:

Sujata Moton

S. Moton
VP