

Chemical Information:

Name: Benzidine dihydrochloride

CAS No.: 531-85-1

Tox21_ID No.: Tox21_202584

NTP_CID No.: 4053

Supplier: Sigma-Aldrich

Lot No.: 314499/1

MW: 257.16 g/mol

Dates of Analysis:

LC/UV: 25 January 2017

LC/MS: 10 January 2017

Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) ^a
Unknown	1.83	0.77
Unknown	1.94	0.57
Unknown	2.28	0.60
Benzidine dihydrochloride	8.55	98.06

^a Peaks comprising ≥ 0.5% of total area.

Instrument Parameters:

Instrument / Ionization	Shimadzu UPLC; Micromass Quattro II / ESI+
Solvent	Methanol
Column	Grace Alltima C18, 5 µm, 250 mm x 4.6 mm ID
Injection Volume / Detection	10 µL / 225 nm
Mobile Phase	Water (A) / Acetonitrile (B)
Program / Flow Rate	50/50 A/B for 40 minutes; 0/100 in 10 minutes, hold 10 minutes; 50/50 for 15 minutes / 1.0 mL/minute
Cone / Corona	50 V / 3.0 kV
Source Temperature	125°C
Probe Temperature	350°C
Scan Range	20 – 1300 amu
Acquisition Software	LC/UV – LabSolutions, v 5.71.SP1; LC/MS – MassLynx 4.0

