

Chemical Information:

Name: Methylphenidate hydrochloride
CAS No.: 298-59-9 Supplier: Sigma-Aldrich
Tox21_ID No.: Tox21_200309 Lot No.: 020M1115
NTP_CID No.: 971 MW: 269.77 g/mol

Date of Analysis: 10 June 2010

Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) ^a
Methylphenidate hydrochloride	18.93	100.00

^a Peaks comprising $\geq 0.5\%$ of total area.

GC/MS Instrument Parameters:

Instrument / Ionization	Gas Chromatograph with Mass Spectrometer / Electron Impact
Solvent	Dichloromethane
Column	J&W Scientific HP-5MS, 30 m x 0.25 mm ID, 0.25- μ m film thickness
Carrier Gas	Helium at 1.0 mL/min
Oven Program	35°C, hold 2 min; ramp @ 10°C/min to 300°C, hold 7 min
Source Temperature	230°C
Auxiliary Temperature	250°C
Scan Range	25 – 500 amu
Injector Temperature	250°C
Injection Volume / Mode	1 μ L / Split (100:1)
Data Analysis Software	MSD Chemstation, v E.02.00.SP2 and NIST Library v 2.0f, build 10/8/2008

