

Chemical Information:

Name: Hydrastinine hydrochloride
 CAS No.: 4884-68-8 Supplier: Sigma Aldrich
 Tox21_ID No.: Tox21_200396 Lot No.: 095F0155
 NTP_CID No.: 5100 MW: 243.69 g/mol

Date of Analysis: 24 August 2015

Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) ^a	Peak Identity	Retention Time (min)	Purity (% Total Area) ^a
Methanol	1.80	Not applicable	Unknown	30.26	8.43
CAS# 6592-85-4 ^b	29.21	73.68	unknown	31.16	17.89

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

^b CAS# 6592-85-4: hydrastinine (MW 207.23 g/mol). HCl is not observed using GC/MS.

GC/MS Instrument Parameters:

Instrument / Ionization	Gas Chromatograph with Mass Spectrometer / Electron Impact
Solvent	Methanol (~ 400 µg/mL)
Column	Restek Rtx-5MS with Integra-Guard, 30 m x 0.25 mm ID, 1-µm film thickness
Carrier Gas	Helium at 2 mL/min
Oven Program	50°C, hold 2 min; ramp @ 5°C/min to 320°C, hold 5 min
Source Temperature	230°C
Auxiliary Temperature	250°C
Scan Range	40 – 450 amu
Injector Temperature	250°C
Injection Volume / Mode	1 µL / Split (10:1)
Run Time	59 minutes
Data Analysis Software	MassHunter GC/MS Acquisition B.07.02.1938 / Chemstation Enhanced Data Analysis F.01.01.2317 / NIST Library Version 2.2 Build 2014

