

Chemical Information:

Name: 5-Fluorouracil
CAS No.: 51-21-8
Tox21_ID No.: Tox21_202335
NTP_CID No.: 408

Date of Analysis: 21 August 2007

Supplier: Sigma-Aldrich
Lot No.: 11121MQ
MW: 130.08 g/mol

Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) ^a	Peak Identity	Retention Time (min)	Purity (% Total Area) ^a
DMSO	5.63	Not applicable	unknown	20.35	1.09
5-Fluorouracil	16.64	96.50	unknown	22.79	0.71
unknown	18.99	0.74	unknown	24.46	0.50

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

GC/MS Instrument Parameters:

Instrument / Ionization	Gas Chromatograph with Mass Spectrometer / Electron Impact
Solvent	Dichloromethane (100 mM in DMSO, diluted 1/1000 with dichloromethane)
Column	J&W Scientific HP-5MS, 30 m x 0.25 mm ID, 0.25-µm film thickness
Carrier Gas	Helium at 1.0 mL/min
Oven Program	35°C, hold 2 min; ramp @ 10°C/min to 310°C, hold 2 min
Source Temperature	250°C
Auxiliary Temperature	250°C
Scan Range	25 – 200 amu
Injector Temperature	250°C
Injection Volume / Mode	2 µL / Splitless
Data Analysis Software	Xcalibur, v 1.2 and NIST Library v 1.7, build 11/5/1999

