

### Chemical Information:

Name: Lovastatin  
CAS No.: 75330-75-5  
Tox21\_ID No.: Tox21\_201475  
NTP\_CID No.: 911

Date of Analysis: 22 September 2010

Supplier: Sigma-Aldrich  
Lot No.: 039K4091  
MW: 404.54 g/mol

### Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) <sup>a</sup>
Unknown – unable to determine identity	29.11	9.80
Lovastatin	30.52	90.20

<sup>a</sup> Peaks comprising ≥ 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-μm film thickness
Carrier Gas	Helium at 1.0 mL/min
Oven Program	35°C, hold 2 min; ramp @ 10°C/min to 330°C, hold 7 min
Source Temperature	230°C
Auxiliary Temperature	250°C
Scan Range	15 – 550 amu
Injector Temperature	300°C
Injection Volume / Mode	1 μL / Split (100:1)
Data Analysis Software	MSD Chemstation, v D.03.00.SP1 and NIST Library v 2.0f, build 10/8/2008

