

### Chemical Information:

Name: Congo Red  
CAS No.: 573-58-0  
Tox21\_ID No.: Tox21\_202934  
NTP\_CID No.: 6553

Supplier: Sigma-Aldrich  
Lot No.: MKBC2650V  
MW: 696.66 g/mol

Dates of Analysis:  
LC/UV: 25 January 2017  
LC/MS: 05 January 2017

### Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) <sup>a</sup>
Congo Red	1.58	97.25
Unknown	2.40	1.33
Unknown	3.16	0.94

<sup>a</sup> Peaks comprising  $\geq 0.5\%$  of total area.

### Instrument Parameters:

Instrument / Ionization	Shimadzu UPLC; Micromass Quattro II / ESI+
Solvent	Methanol
Column	Grace Alltima C18, 5 $\mu$ m, 250 mm x 4.6 mm ID
Injection Volume / Detection	10 $\mu$ L / 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

