

**Chemical Information:**

Name: Maltol  
CAS No.: 118-71-8  
Tox21\_ID No.: Tox21\_202215  
NTP\_CID No.: 919

Supplier: Sigma-Aldrich  
Lot No.: 14512KC  
MW: 126.11 g/mol

Date of Analysis: 12 July 2007

**Purity and Identity Results:**

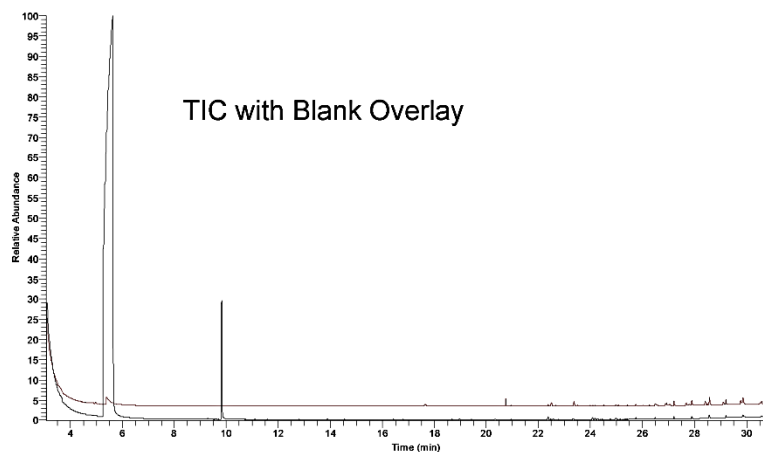
| Peak Identity | Retention Time (min) | Purity (% Total Area) <sup>a</sup> |
|---------------|----------------------|------------------------------------|
| DMSO          | 5.64                 | Not applicable                     |
| Maltol        | 9.82                 | 99.38                              |

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

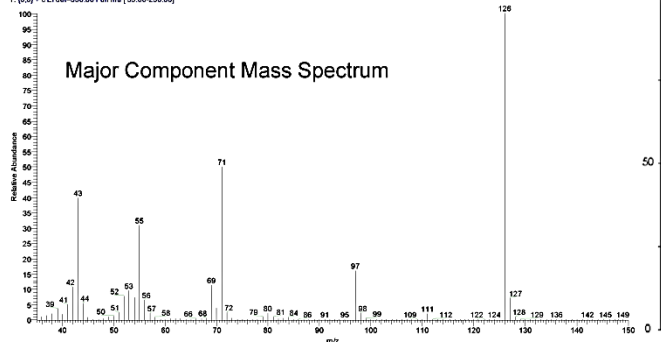
**GC/MS Instrument Parameters:**

|                         |  |
|-------------------------|--|
| Instrument / Ionization | ThermoFinnigan TraceGC with ThermoFinnigan TraceMS / 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- $\mu$ m 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              | 35 – 250 amu   |
| Injector Temperature    | 250°C  |
| Injection Volume / Mode | 2 $\mu$ L / Splitless  |
| Run Time                | 31.5 minutes   |
| Data Analysis Software  | Xcalibur, v 1.2 and NIST Library v 1.7, build 11/5/1999                |

RT: 3.05 - 31.50 SM 3G



07g1205 #1782 RT: 9.81 AU: 1 NL: 2.83E6  
T: (0.0) v: c: E: 0e+000.00 Full ms [35.00-250.00]



NIST Reference Mass Spectrum

