

Chemical Information:

Name: Benzidine

Date of Analysis: 27 March 2007

CAS No.: 92-87-5

Supplier: Sigma-Aldrich

Tox21_ID No.: Tox21_202359

Lot No.: 018C0024

NTP_CID No.: 519

MW: 184.24 g/mol

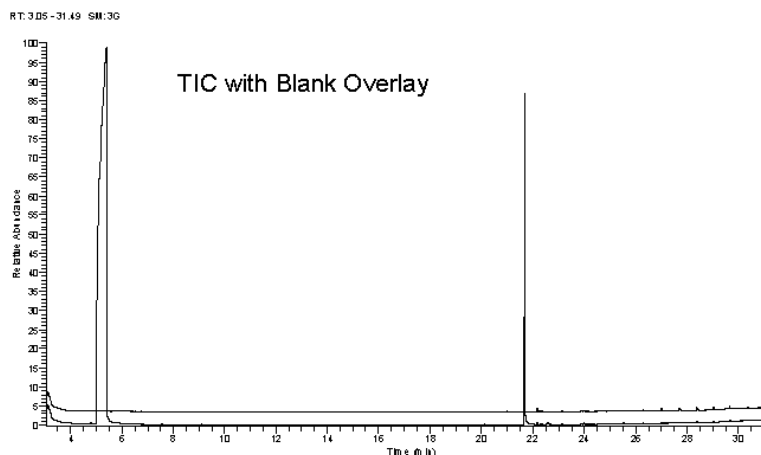
Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) ^a
DMSO	5.39	Not applicable
Benzidine	21.69	99.03
unknown	22.57	0.83

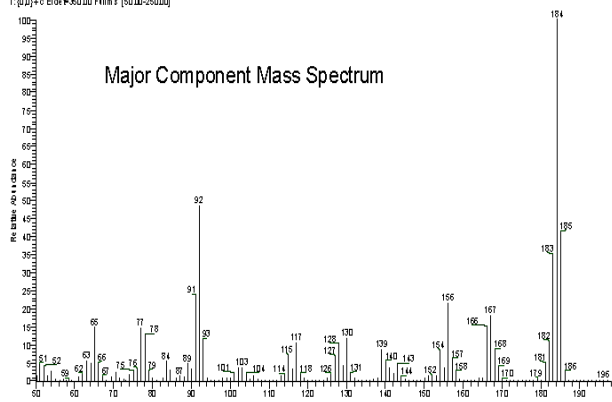
^a Peaks comprising ≥ 0.5% of total area.

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-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	50 – 250 amu
Injector Temperature	250°C
Injection Volume / Mode	2 μL / Splitless
Run Time	31.5 minutes
Data Analysis Software	Xcalibur, v 1.2 and NIST Library v 1.7, build 11/5/1999



027117 02242 RT: 21.69 AM: 1 NL: 32065
T: (P2)+c Bide+300.00 Fullin r [50.00-350.00]



NIST Reference
Mass Spectrum

