

Certificate of Analysis

BDG Synthesis certifies that this reference material meets or exceeds the specifications stated herein.

Barry Dent

Barry R. Dent, PhD, Director 6 February 2011

Name: 2,4,5-Trimethoxyamphetamine HCl

CAS Number: 18383-76-1

Structure:

MeO NH₂ HCI

Molecular Weight: $C_{12}H_{19}NO_3\cdot HCl = 261.75$

Lot Number: BDG 4192.7

Appearance: White, crystalline solid

Purity By HPLC: 98.9 %

Re-test Date: 6 February 2016

Storage and Handling: Temperature: refrigerate for prolonged storage; may be handled and shipped at

ambient temperature.

Humidity: not believed to be hygroscopic; may be handled in normal laboratory

atmosphere.

Light: protect from strong sunlight.

Caution: only experienced laboratory personnel should handle the material.

Identity and Purity

Proton NMR Spectrum

Identity: the signals are consistent with the proposed structure and in accord with literature where available.

Residual Solvents: no residual solvents are observed.

Impurities: no significant impurities are evident in the spectrum.

Carbon-13 NMR Spectrum

Identity: the signals are consistent with the proposed structure and in accord with literature where available.

High-resolution Mass Spectrum (EI+)

Found m/z 225.1364. $C_{12}H_{19}NO_3$ [M]⁺ (free base) requires m/z 225.1365. The deviation of 0.3 ppm is within normally accepted limits for the establishment of identity by HRMS.

HPLC

A broad, slightly tailing peak is observed (98.9 %). Note: in the absence of reference materials for preparing calibration curves, it is assumed that all peaks have the same detector response. Where possible, the conditions of analysis follow a pharmacopeial or literature method, or have been adapted from same.

Elemental Analysis

Found: C 55.22, H 7.92, N 5.28 %

C₁₂H₁₉NO₃·HCl Requires: C 55.06, H 7.70, N 5.35 %

The elemental analyses fall within generally accepted limits for establishing the molecular formula given. The results may also be taken to imply the absence of significant quantities of water or inorganic salts (which have not been elsewhere tested for because of sample size limitations).

The available quantity of custom-synthesised material is always small, and this limits the extent and type of analytical data which can be obtained. This Certificate is presented in descriptive format for use by analytical chemists who are trained in the use of custom-synthesised materials. Custom materials often contain higher levels of residual solvents and/or water, and we urge you to use the corrected purity where needed rather than the raw HPLC purity. This compound is intended for use as an analytical reference material and it is not for human administration. Structures are shown with relative stereochemistry unless otherwise specified.

The re-test date is assigned from experience gained with the material in the laboratory and/or on storage. It is not possible to perform formal storage studies because of the small amount of material available.

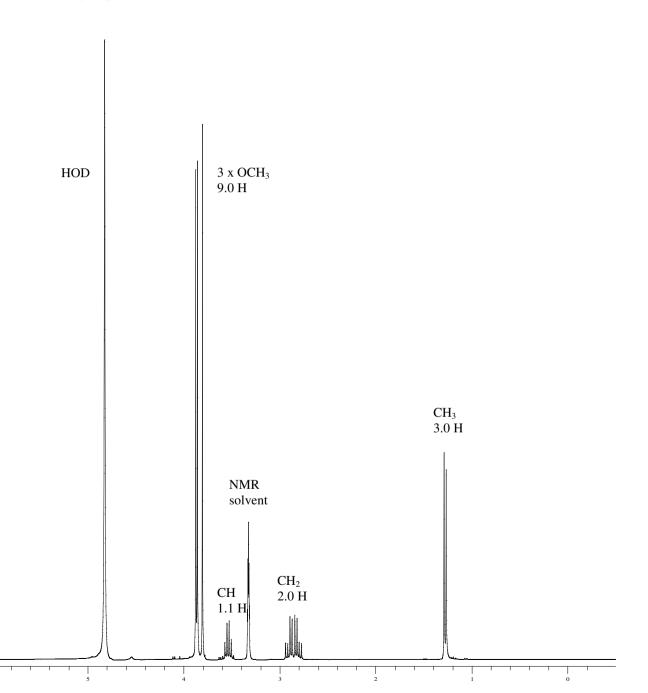
2 x CH, Ar

2.0 H



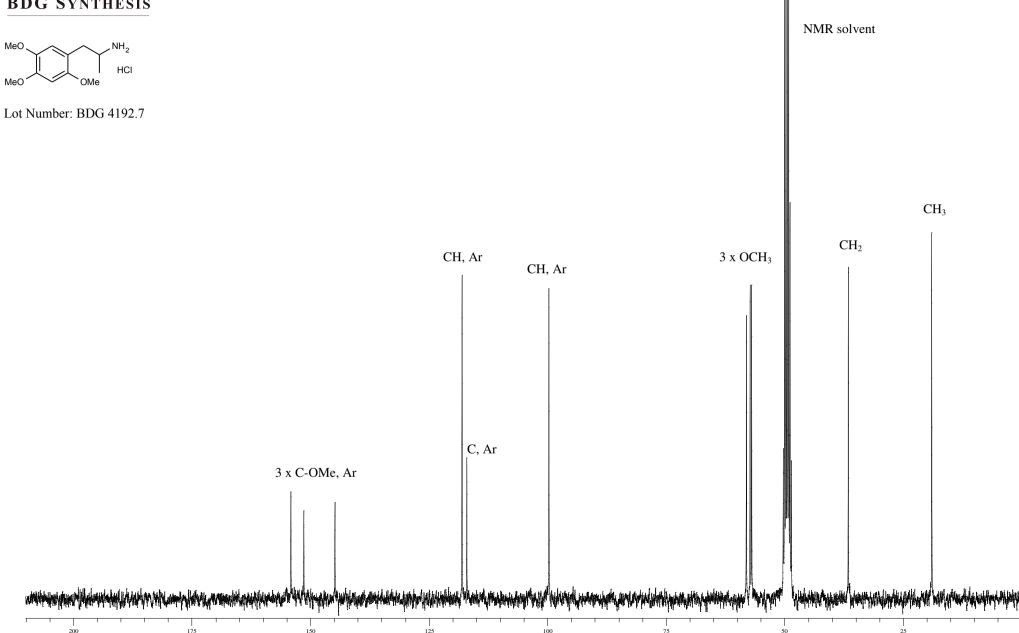
BDG SYNTHESIS

Lot Number: BDG 4192.7





BDG SYNTHESIS



BDG - Analysis of 2,4,5-Trimethoxyamphetamine HCI

Column : Phenomenex Luna C18(2) 5um 250 x 4.6 mm Guard : Phenomenex Security Guard C18 RP 4 x 3 mm

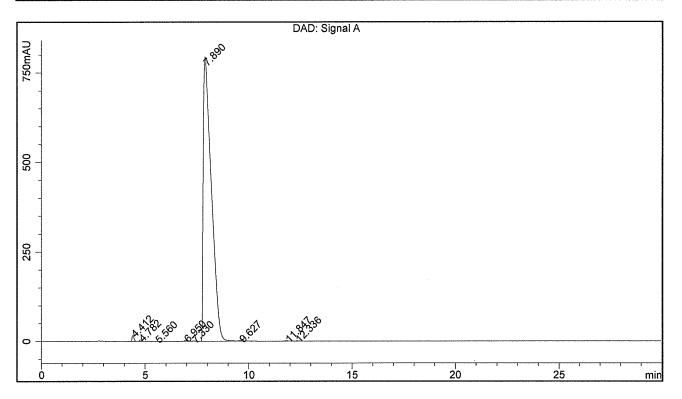
Mobile Phase: 85:15 10mM Potassium diHydrogen Phosphate pH=3.0: Acetonitrile

Flow Rate: 1.0 mL/min

Sample Solvent: Initial Mobile Phase

Injection Volume : 10 uL Column Temperature : 20C Detection : UV at 215 nm

Sample Name	BDG 4192.7	Instrument	AnalyticalLC01
Acquisition	06/02/2011, 20:02:06	Method (rev.)	LC10422a (2)
Sequence	BDG_06Feb2011f	Vial Position	2
Operator	solvation010\cerityadmin	Injection	2 of 2



Area Percent Report

Peak#	RT	Peak Height	Peak Area	Width	Area %
1	4.41 min	17.0500	111.2586	0.1001 min	0.509 %
2	4.78 min	4.3324	36.2601	0.1236 min	0.166 %
3	5.56 min	0.5373	4.2631	0.1186 min	0.020 %
4	6.95 min	2.7134	25.2230	0.1405 min	0.115 %
5	7.33 min	0.8706	8.0239	0.1395 min	0.037 %
6	7.89 min	794.0786	21598.6390	0.3873 min	98.877 %
7	9.63 min	1.2423	19.5958	0.2440 min	0.090 %
8	11.85 min	1.1901	19.2909	0.2471 min	0.088 %
9	12.34 min	1.0854	21.3306	0.2813 min	0.098 %