



BDG SYNTHESIS

Certificate of Analysis

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

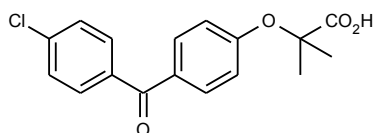
Barry Dent

Barry R. Dent, PhD, Director
22 November 2009

Name: Fenofibric Acid

CAS Number: 42017-89-0

Structure:



Molecular Weight: $C_{17}H_{15}ClO_4 = 318.75$

Lot Number: BDG 1457

Appearance: White powder

Purity By HPLC: 99.8 %

Re-test Date: 22 November 2014

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: traces of unidentified impurities are seen in the baseline.

Carbon-13 NMR Spectrum

Identity: the signals are consistent with the proposed structure and in accord with literature where available. A small septet arising from DMSO- d_6 is also observed. This solvent was added to assist with dissolution of the sample.

High-resolution Mass Spectrum (FAB+)

Found m/z 319.0727. $C_{17}H_{16}^{35}ClO_4$ $[M+H]^+$ requires m/z 319.0737. The deviation of 3.1 ppm is within normally accepted limits for the establishment of identity by HRMS.

HPLC

A sharp, symmetrical peak is observed (99.8 %). 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 64.15, H 4.80 %
$C_{17}H_{15}ClO_4$	Requires:	C 64.06, H 4.74 %

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).

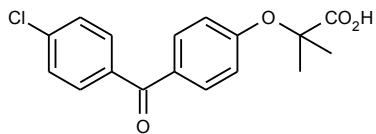
The available quantity of custom-synthesised material is always small, and this limits the extent and type of analytical data which can be obtained. This Certificate is presented in descriptive format for use by analytical chemists who are trained in the use of custom-synthesised materials. Custom materials 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.

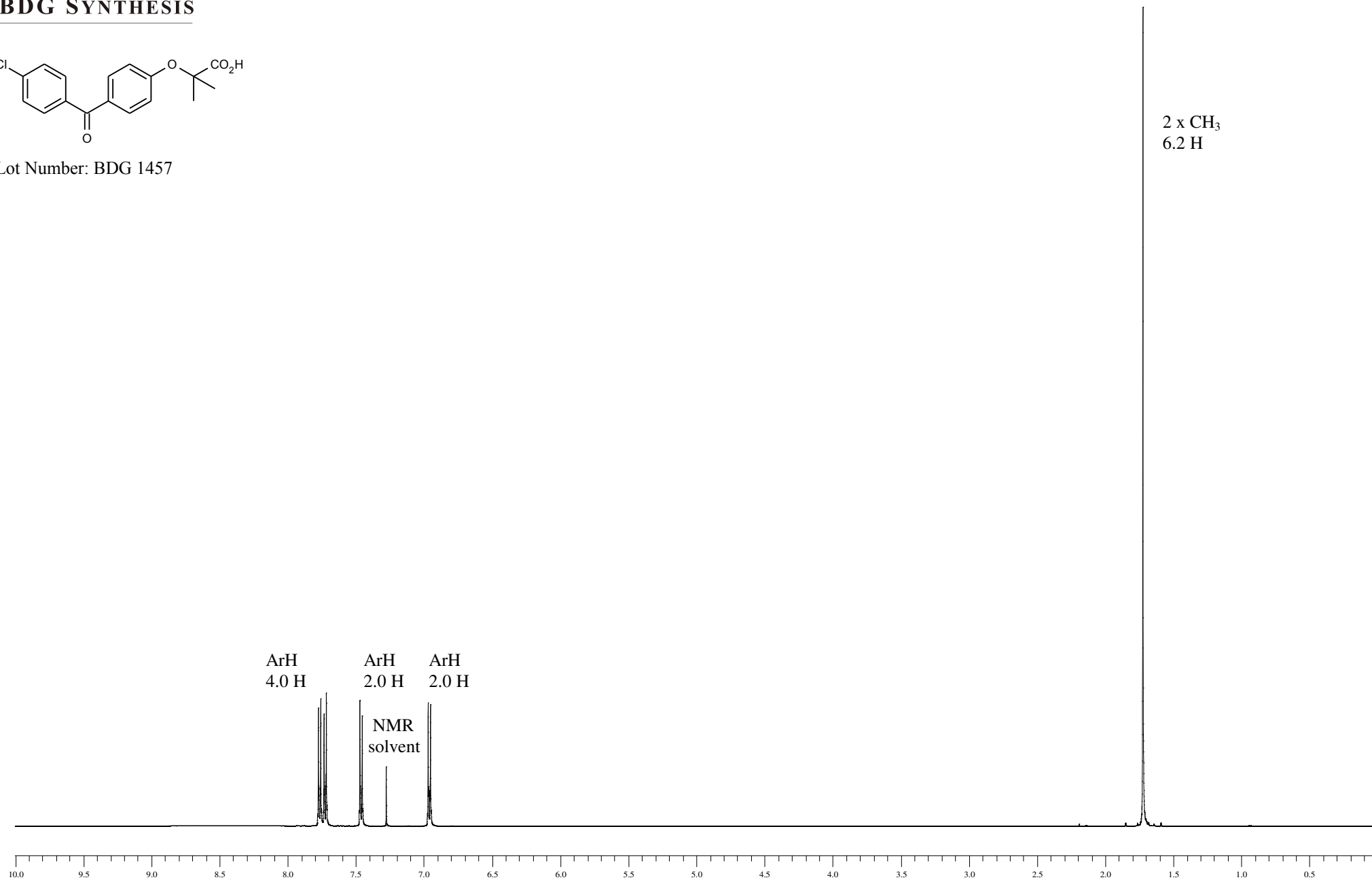


Proton NMR Spectrum of Fenofibric Acid in CDCl₃

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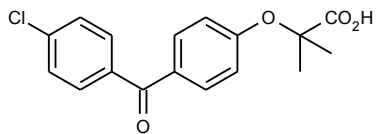
Lot Number: BDG 1457



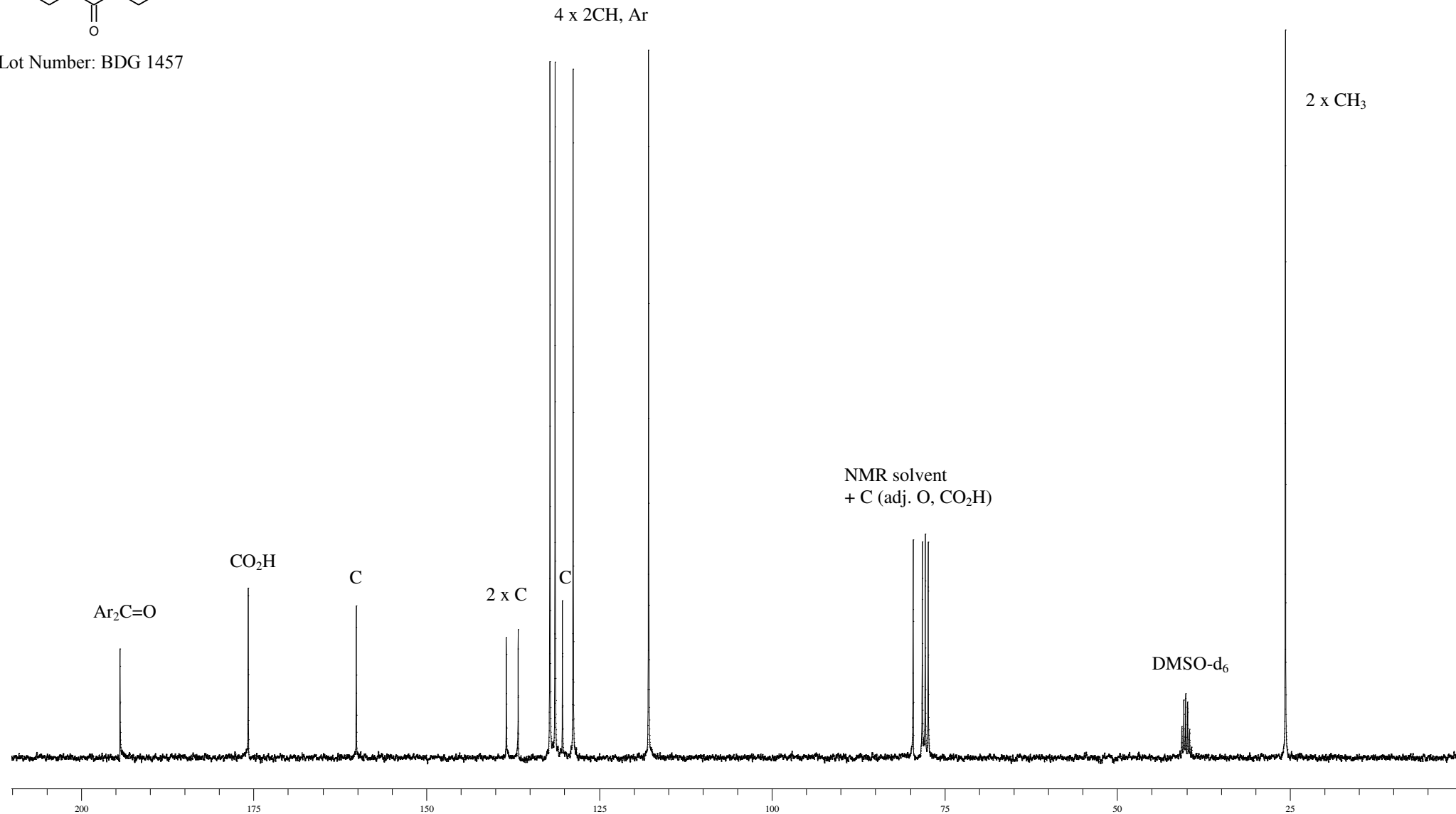


Carbon-13 NMR Spectrum of Fenofibric Acid in CDCl_3

BDG SYNTHESIS



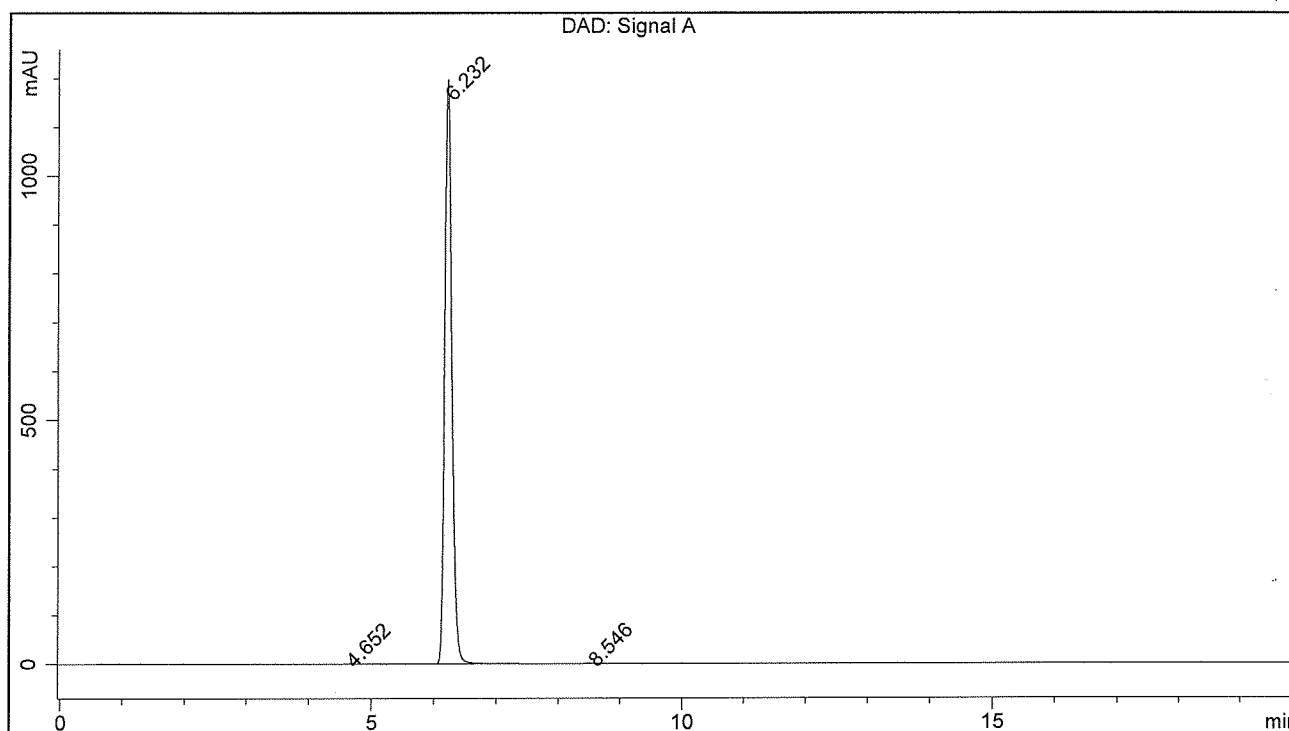
Lot Number: BDG 1457



BDG - Analysis of Fenofibric Acid

Column : Phenomenex Luna C18(2) 5um 250 x 4.6 mm
 Guard : Phenomenex Security Guard C18 RP 4 x 3 mm
 Mobile Phase : 30:70 Water at pH=2.5 (H3PO4) : Acetonitrile
 Flow Rate : 1.0 mL/min
 Sample Solvent : Mobile Phase
 Column Temperature : 20C
 Injection Volume : 10 uL
 Detection : UV at 286 nm

Sample Name	BDG 1457	Instrument	AnalyticalLC01
Acquisition	22/11/2009, 15:14:23	Method (rev.)	LC10356a (2)
Sequence	BDG_22Nov2009a	Vial Position	1
Operator	solvation010\cerityadmin	Injection	1 of 1



Area Percent Report

Peak#	RT	Peak Height	Peak Area	Width	Area %
1	4.65 min	0.3436	2.1121	0.0897 min	0.022 %
2	6.23 min	1197.8968	9484.8336	0.1224 min	99.821 %
3	8.55 min	1.3286	14.8524	0.1684 min	0.156 %