

Certificate of Analysis

This material is a research-grade material prepared by custom synthesis. The quantity available is limited, 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 research-grade materials. Research 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.

BDG Synthesis certifies that this reference material meets or exceeds the specifications stated in this data sheet.

Barry Dent

Barry R. Dent, PhD, Director 11 August 2004

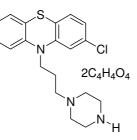
Name:

N-Desmethylprochlorperazine dimaleate

CAS Number:

49780-18-9

Structure:



Molecular Weight:	$C_{19}H_{22}CIN_3S \bullet 2C_4H_4O_4 = 592.06$
Lot Number:	BDG 4609
Appearance:	Pale yellow, crystalline solid
Purity by HPLC:	99.6 %
Expiry Date:	11 August 2005 Because of the small amount of material available it is not possible to perform formal storage stability studies. This expiry date is assigned from experience gained with the material in the laboratory and/or on storage.

Storage and Handling:

Custom synthesis of analytical reference standards, metabolites, stable isotope labelled compounds

Temperature: ambient laboratory temperature. Humidity: not believed to be hygroscopic; may be handled in normal laboratory atmosphere. Light: store in an amber vial and protect from bright light. Caution: Only experienced laboratory personnel should handle the material.

1/5

Contract research
BDG Synthesis is a division of B Dent Global Limited

Mailing: BDG Synthesis PO Box 38 627, Wellington Mail Centre, Wellington, New Zealand. Shipping: BDG Synthesis Gracefield Research Centre, Building F, Gracefield Road, Lower Hutt, New Zealand.

Phone: + 64 4 569 0520 Fax: + 64 4 569 0521 info@bdg.co.nz www.bdg.co.nz

Identity and Purity:

Source of Material

The material was made by an unambiguous synthetic route, using literature procedures where possible; starting materials were purchased from reputable sources and all intermediates were checked for identity by NMR.

Proton NMR Spectrum

Identity: the signals are consistent with the proposed structure and in accord with literature where available. Residual solvents: a trace (under 0.1 %) of methanol is observed. Impurities: no significant impurities are evident in the spectrum.

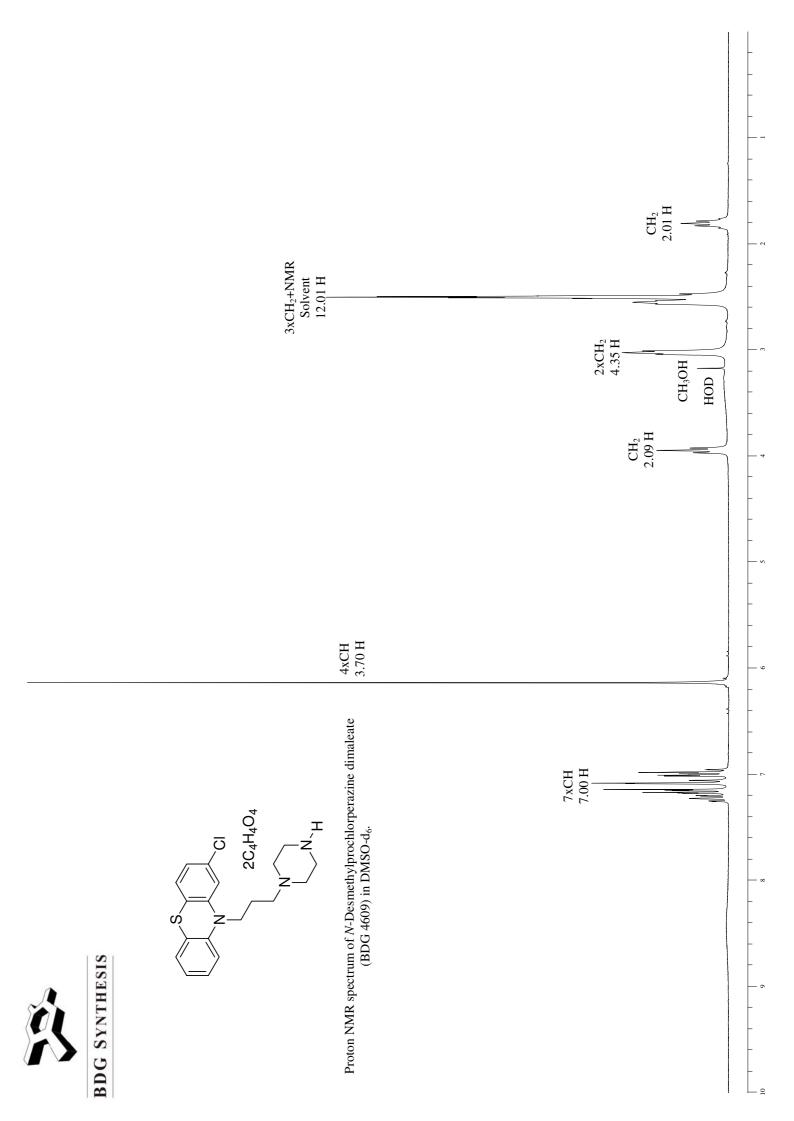
Carbon-13 NMR Spectrum

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

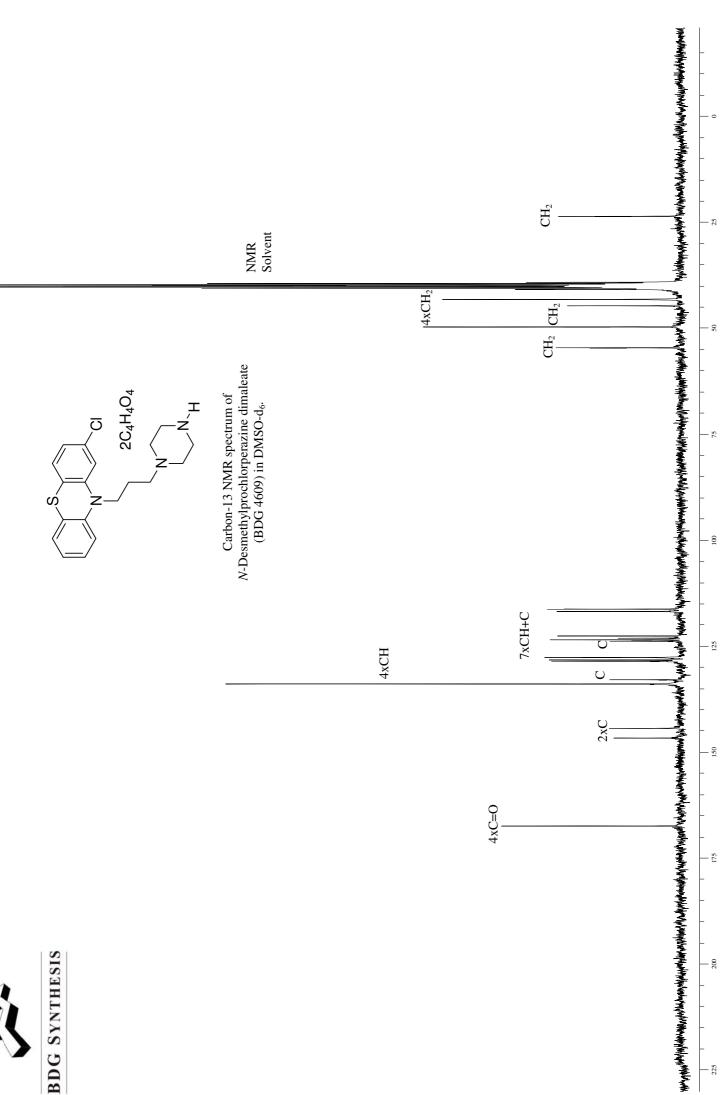
High-resolution mass spectrum (ESI+): found m/z 360.1285. C₁₉H₂₃ClN₃S [M+H]⁺ requires m/z 360.1296. The deviation of 2.9 ppm is within normally accepted limits for the establishment of identity by HRMS.

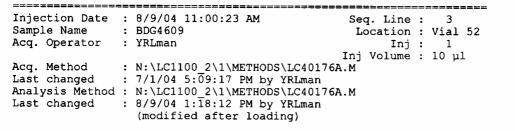
HPLC: A broad, symmetrical peak is observed (99.6 area %). The peak on the solvent front is maleic acid. Note: in the absence of reference materials for preparing calibration curves, it is assumed that all peaks have the same detector response. Where possible, the conditions of analysis follow a pharmacopeial or literature method, or have been adapted from same.

Elemental Analysis: Found:C 54.54, H 5.20, N 7.00 % $C_{19}H_{22}CIN_3S \bullet 2C_4H_4O_4$ requires:C 54.77, H 5.11, N 7.10 %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).

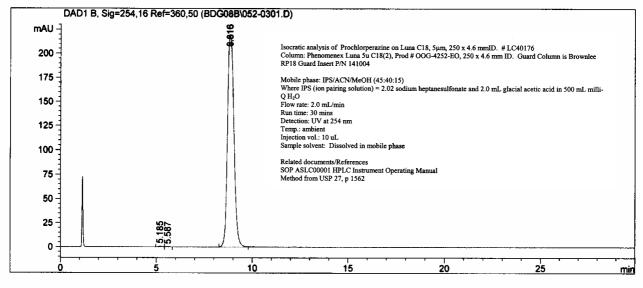








BDG - isocratic analysis of prochlorperazine on Luna C18, 5um, 250 x 4.6mm ID. # LC40176



Area Percent Report

Sorted By	:	Signal

Multiplier	:	1.0000
Dilution	:	1.0000

Signal 1: DAD1 B, Sig=254,16 Ref=360,50

	[min]		Width [min]	Area [mAU*s]	Height [mAU]	Area %
1 2	5.185 5.587 8.816	MF FM	0.2160 0.2745	11.92665 4.26976 5125.30273	9.20341e-1 2.59206e-1	0.2320
Totals	:			5141.49915	220.95993	

Results obtained with enhanced integrator!

*** End of Report ***