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## CERTIFICATE OF ANALYSIS

### Morphodrol

*α,α-diphenyl-3-morpholinemethanol*

Material Lot# 20181107 Manufacture Date: 1/30/2019  
Country of Origin: China Retesting Date: 1/29/2021

Analysis	Claim	Result
Assay	≥98%	99.6%

Test	Claim	Result
Appearance	White Crystalline Powder	Complies
HPLC Assay	≥98%	Complies
<sup>1</sup> H-NMR	Conforms to Structure	Complies
<sup>13</sup> C NMR	Conforms to Structure	Complies
Heavy Metals	≤10 ppm	Complies
As	≤1 ppm	Complies
Cd	≤1 ppm	Complies
Hg	≤1 ppm	Complies
Pb	≤1 ppm	Complies

Conforms to enterprise standard

Morphodrol should be stored at or below room temperature in a tightly sealed durable container. Morphodrol should be protected from excess heat, direct sunlight, excess humidity and moisture. Morphodrol is stable for 3 years when properly stored. After 3 years it is retested to verify purity.



Colmaric Analyticals, LLC

812 Meadowlark Lane, Goodlettsville, TN 37072  
Telephone: 615-239-8604

### Certificate of Analysis

Synaptent LLC

Product Name	α,α-diphenyl-3-morpholinemethanol	Product Lot Number	20181107
Report Date	01/30/2019	Laboratory Number	11344

Description	Method	Result
Identification	<sup>1</sup> H NMR	Conforms
Identification	<sup>13</sup> C NMR	Conforms
Assay	HPLC	99.6 %
Lead	ICP-MS	0.014 ppm
Arsenic	ICP-MS	<0.001 ppm
Cadmium	ICP-MS	0.004 ppm
Mercury	ICP-MS	0.005 ppm

*Michael Robil*

Michael Robil  
QA Auditor

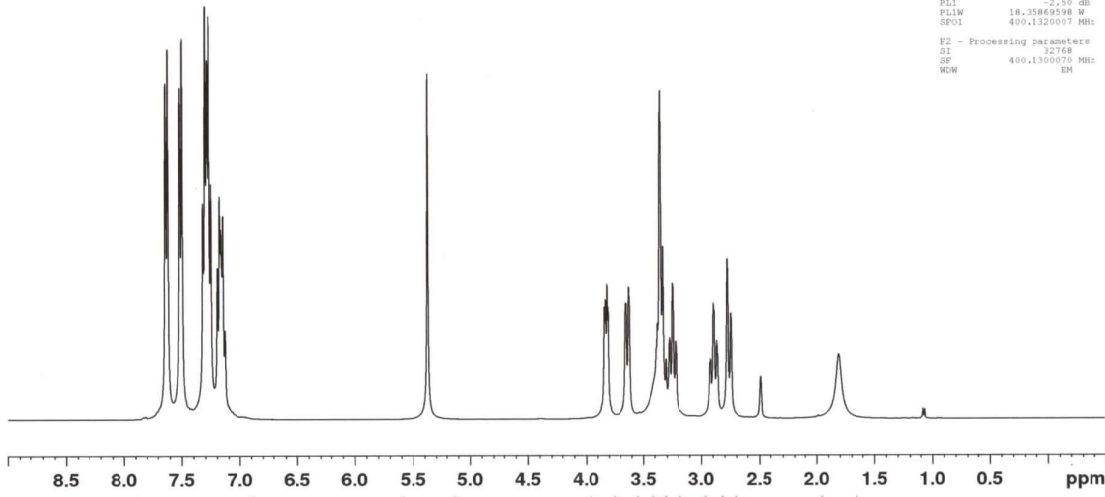
*01/30/19*

01/30/2019  
Date

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1H NMR of alpha,alpha-diphenyl-3-morpholinemethanol  
 in DMSO  
 Lot #11344  
 Colmaric Analytical  
 400 MHz  
 1-18-19

Current Data Parameters  
 NAME Jan18-2019-colmaric  
 EXPNO 4  
 PROCNO 1  
 F2 - Acquisition Parameters  
 Date\_ 20190118  
 Time 13.45  
 INSTRUM spect  
 PROBU 5 mm PABBO BB-  
 PULPROG zg30  
 TD 32768  
 SOLVENT DMSO  
 NS 32  
 DS 0  
 SWH 500.833 Hz  
 FIDRES 0.158946 Hz  
 AQ 3.1457281 sec  
 RG 28.5  
 DW 96.000 usec  
 DE 25.61 usec  
 TE 298.0 K  
 D1 1.5000000 sec  
 TDO 1  
 CHANNEL F1 -----  
 NUC1 1H  
 P1 11.38 usec  
 PL1 -2.50 dB  
 PL1W 18.35869598 W  
 SFO1 400.1320007 MHz  
 F2 - Processing parameters  
 SI 32768  
 SF 400.1300070 MHz  
 WDW EM



13C NMR of alpha,alpha-diphenyl-3-morpholinemethanol  
 in DMSO  
 Lot #11344  
 Colmaric Analytical  
 400 MHz  
 1-18-19

Current Data Parameters  
 NAME Jan18-2019-colmaric  
 EXPNO 4  
 PROCNO 1  
 F2 - Acquisition Parameters  
 Date\_ 20190118  
 Time 13.52  
 INSTRUM spect  
 PROBU 5 mm PABBO BB-  
 PULPROG zgpg30  
 TD 32768  
 SOLVENT DMSO  
 NS 32  
 DS 0  
 SWH 26178.010 Hz  
 FIDRES 0.788889 Hz  
 AQ 0.628668 sec  
 RG 16384  
 DW 13.100 usec  
 DE 6.00 usec  
 TE 298.0 K  
 D1 2.0000000 sec  
 TDO 1  
 CHANNEL F1 -----  
 NUC1 13C  
 P1 12.00 usec  
 PL1 -1.00 dB  
 PL1W 37.63110302 W  
 SFO1 100.6283664 MHz  
 CHANNEL F2 -----  
 CPDPRG2 waltz16  
 NUC2 1H  
 FCPD2 80.00 usec  
 PL2 -2.50 dB  
 PL12 14.44 dB  
 PL13 14.44 dB  
 PL1W 18.35869598 W  
 PL1W 18.35869598 W  
 PL1W 18.35869598 W  
 SFO2 400.1320007 MHz  
 F2 - Processing parameters  
 SI 32768  
 SF 100.6181818 MHz  
 WDW EM  
 GB 0  
 SB 0  
 SC 0  
 PC 1.40

