



# INDOFINE Chemical Company, Inc.

121 Stryker Lane, Bldg. 30, Suite 1 • Hillsborough, NJ 08844 • U.S.A.

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## CERTIFICATE OF ANALYSIS

Catalog Number: 06-025

Product Name: L-RHAMNOSE

CAS Number: [6155-35-7]

Lot Number: 0406226

Chemical Formula: C<sub>6</sub>H<sub>12</sub>O<sub>5</sub>

Molecular Weight: 164.16

Melting Point: 92-95°C

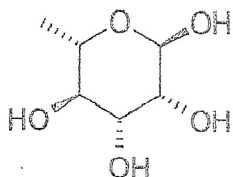
Appearance: White crystalline powder

Solubility: Clear solution in DMSO

NMR Spectrum: Enclosed (conforms to the structure)

Storage: Store in a cool, dry place

Purity: 98+%

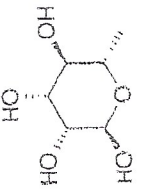


Prepared by:  
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Ramesh Mandadi  
Director of Operations

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Sujata Moton  
Sujata Moton  
VP



**INDOFINE Chemical Company, Inc.**  
 121 STRYKER LANE  
 BLDG. 30, SUITE 1  
 HILLSBOROUGH, NJ 08844

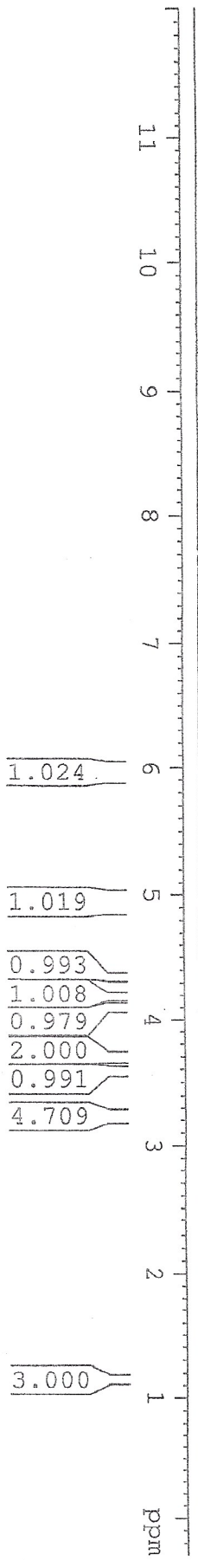


Catalog No.: 06-025  
 Product Name: L-Rhamnose  
 Lot No.: 0406226

SOLVENT DMSO  
 NS 16  
 DS 0  
 SWH 9803.922 Hz  
 FIDRES 0.326819 Hz  
 AQ 1.5299480 sec  
 RG 22.6  
 DW 51.000 usec  
 DE 6.00 usec  
 TE 298.2 K  
 D1 1.5000000 sec  
 TD0 1

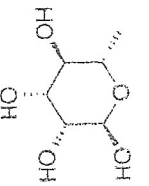
1H IN cdc13+DMSO  
 AVANCE-600

==== CHANNEL f1 =====  
 NUCL 1H  
 P1 7.50 usec  
 P1L 2.60 dB  
 PL1M 6.62584448 W  
 GE01 600.3345228 MHz  
 T1 32768  
 SF 600.3300139 MHz  
 WDM EM  
 SSB 0  
 LB 0.30 Hz  
 GB 0  
 PC 1.00





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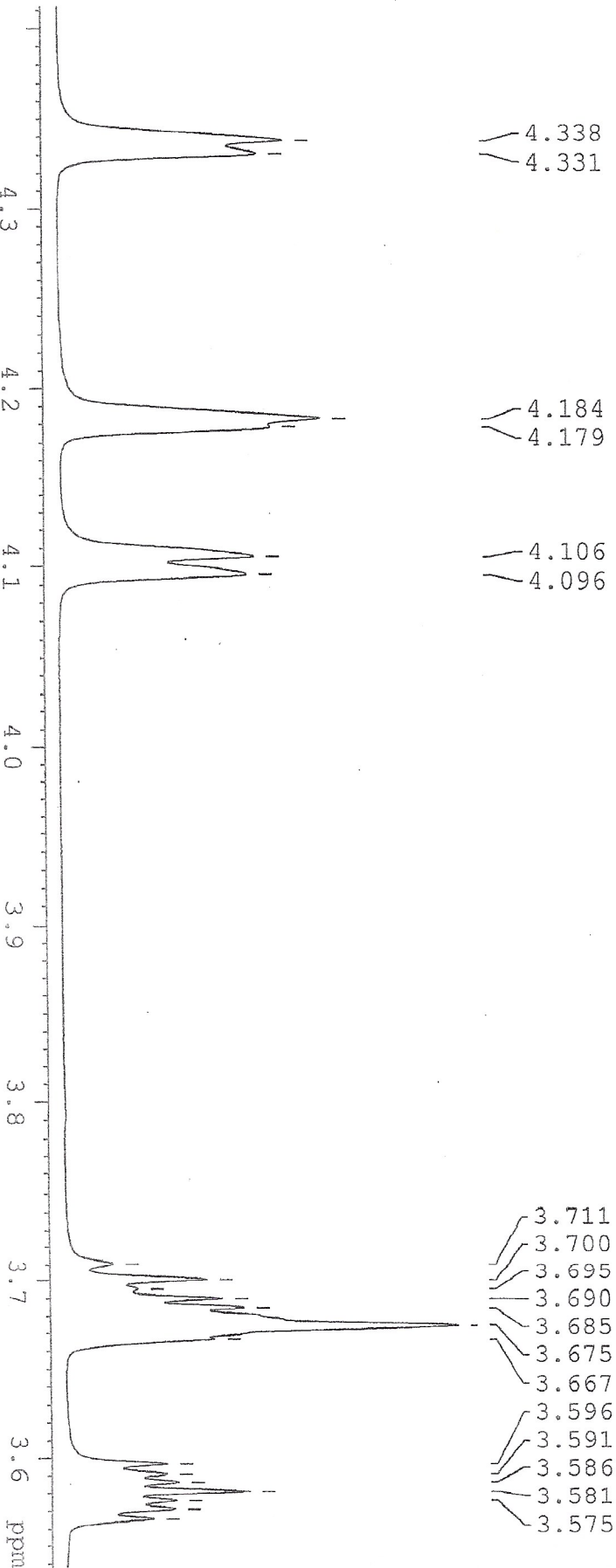


Catalog No.: 06-025  
 Product Name: L-Rhamnose  
 Lot No.: 0406226

SOLVENT DMSO  
 NS 16  
 DS 0  
 SWH 9803.922 Hz  
 FIDRES 0.326819 Hz  
 AQ 1.5299480 sec  
 RG 22.6  
 DW 51.000 usec  
 DE 6.00 usec  
 TE 298.2 K  
 D1 1.50000000 sec  
 ID0 1

1H IN cdc13+DMSO  
 AVANCE-600

==== CHANNEL f1 =====  
 NUC1 1H  
 P1 7.50 usec  
 P11 2.60 dB  
 P11M 6.62584448 W  
 SFO1 600.3345228 MHz  
 SI 3276.0  
 SF 600.3300139 MHz  
 WDW EM  
 SSB 0  
 LB 0.30 Hz  
 GB 0  
 PC 1.00





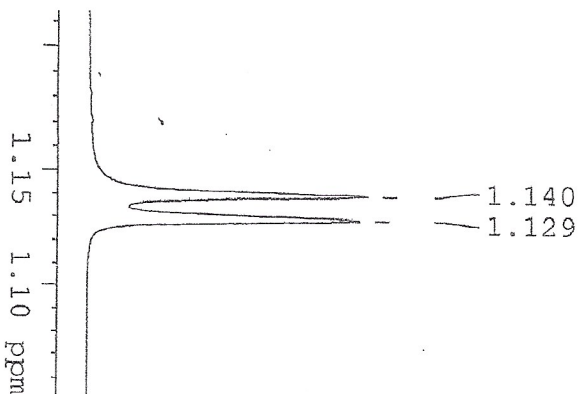
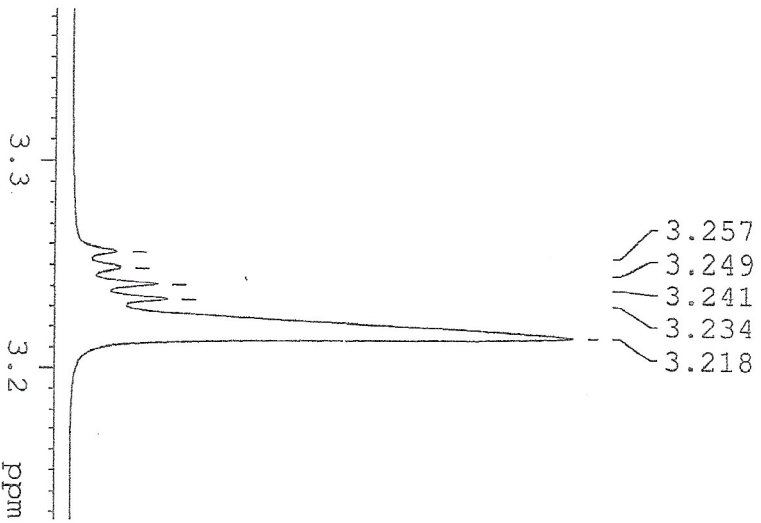
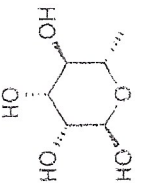
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Catalog No.: 06-025  
 Product Name: L-Rhamnose  
 Lot No.: 0406226

SOLVENT DMSO  
 NS 16  
 DS 0  
 SMH 9803.922 Hz  
 FIDRES 0.326819 Hz  
 AQ 1.5299480 sec  
 RG 22.6  
 DW 51.000 usec  
 DE 6.00 usec  
 TE 298.2 K  
 D1 1.50000000 sec  
 TDO 1

1H IN cdcl3+DMSO  
 AVANCE-600

CHANNEL F1  
 =====  
 NUC1 1H  
 P1 7.50 usec  
 PL1 2.60 dB  
 PL1W 6.62584448 W  
 SFO1 600.3345228 MHz  
 SI 32768  
 SF 600.3300139 MHz  
 WDW EM  
 SSB 0  
 LB 0.30 Hz  
 GB 0  
 PC 1.00



3.257  
 3.249  
 3.241  
 3.234  
 3.218

4.921  
 4.916

