



INDOFINE Chemical Company, Inc.

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

Phone: (908) 359-6778 • FAX: (908) 359-1179

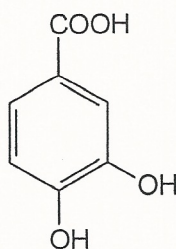
website: www.indofinechemical.com

e-mail: chemical@indofinechemical.com

CERTIFICATE OF ANALYSIS

CAT. No.: D-006

| | |
|--------------------------|--------------------------------------------------|
| <u>Product Name:</u> | 3,4-DIHYDROXYBENZOIC ACID monohydrate |
| <u>Synonym:</u> | Protocatechuic acid monohydrate |
| <u>CAS No.:</u> | [99-50-3] |
| <u>Lot Number:</u> | 0505056 |
| <u>Chemical Formula:</u> | $C_7H_6O_4 \cdot H_2O$ |
| <u>MW:</u> | 154.12 + H_2O |
| <u>Melting Point:</u> | 205.3-206.8°C |
| <u>Appearance:</u> | White powder |
| <u>TLC:</u> | Chloroform : Methanol (7:3) |
| <u>Solubility:</u> | DMF |
| <u>Purity:</u> | 99% |





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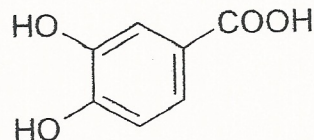
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HPLC ANALYSIS

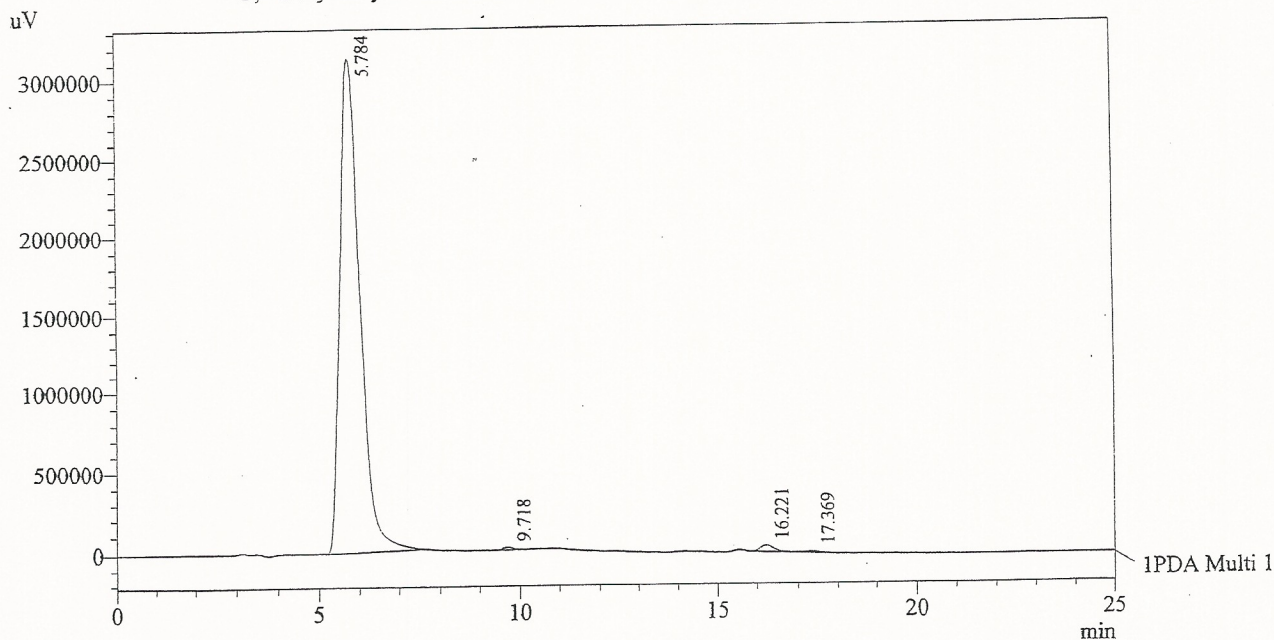
Cat. No.: D-006
Product: 3,4-Dihydroxybenzoic Acid Monohydrate
Lot No.: 0505056

Date Acquired : 2/4/2010 12:08:15 PM
Acquired by : Madhuri
Sample Name : 3,4-Dihydroxy benzoic acid monohydrate
Sample ID : Indofine
Injection Volume : 20 uL
Data Filename : 040210C.lcd
Method Filename : Linear Gradient.M.lcm



Description:
Column : Inertsil C-18, 250X4.6mm 5.0µm
Flow : 1.000mL/min.
Mobile Phase : A(Water 0.05% TFA) : B(ACN)
00.01 : 90 : 10
12.00 : 10 : 90
20.00 : 10 : 90
23.00 : 90 : 10

Chromatogram
3,4-Dihydroxy benzoic acid monohydrate D:\promonence\2010\Feb-10\040210C.lcd



1 PDA Multi 1 / 220nm 4nm

PeakTable

PDA Ch1 220nm 4nm

| Peak# | Ret. Time | Area | Height | Area % |
|-------|-----------|-----------|---------|---------|
| 1 | 5.784 | 106196201 | 3129567 | 99.047 |
| 2 | 9.718 | 190098 | 12636 | 0.177 |
| 3 | 16.221 | 687913 | 31274 | 0.642 |
| 4 | 17.369 | 143303 | 6465 | 0.134 |
| Total | | 107217515 | 3179943 | 100.000 |



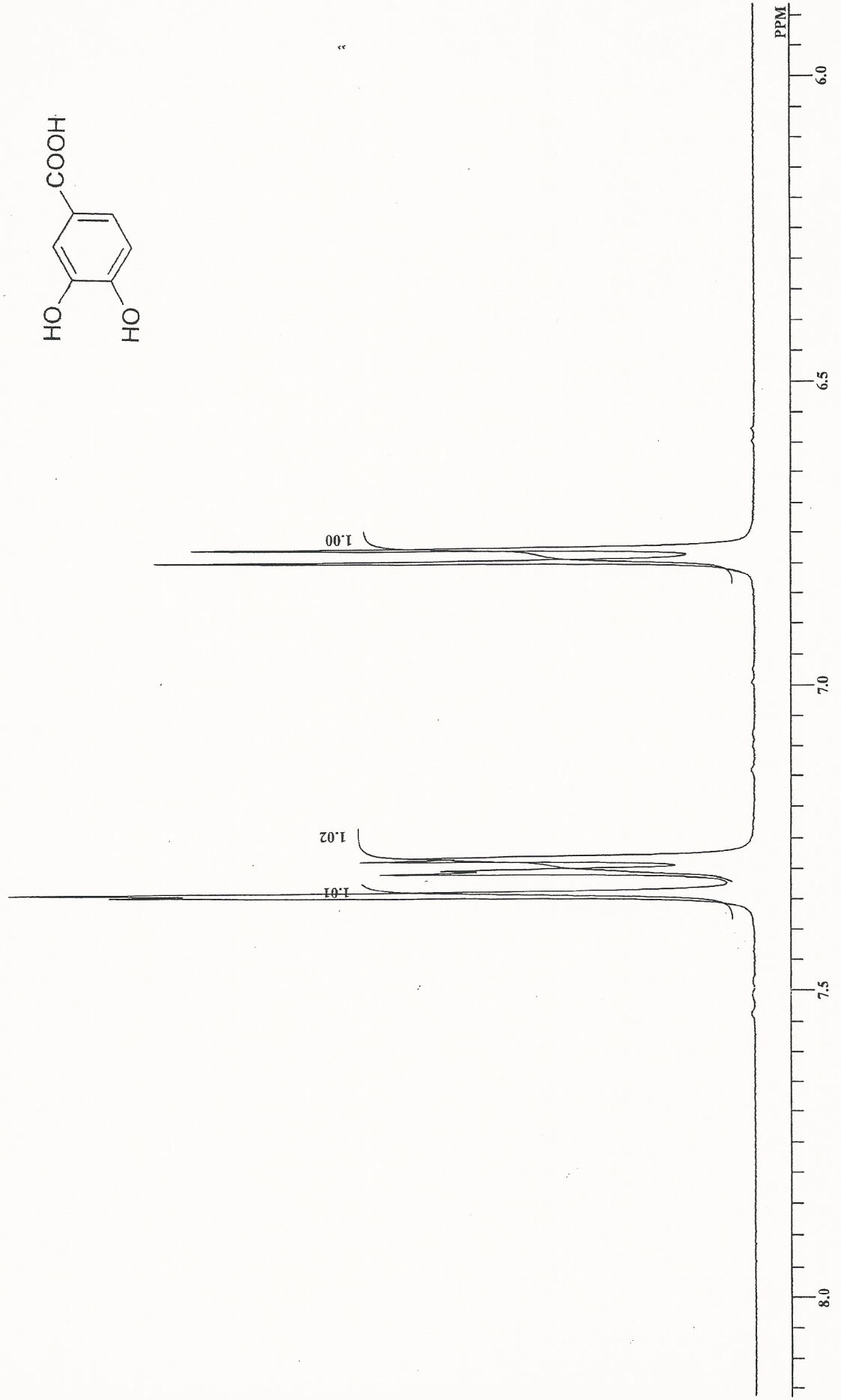
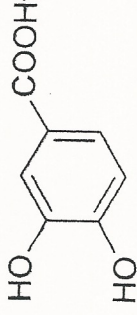
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