



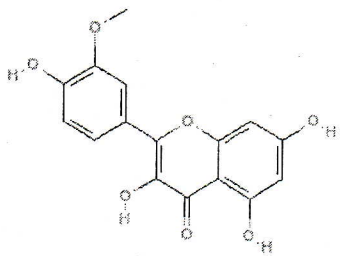
# INDOFINE Chemical Company, Inc.

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](http://www.indofinechemical.com)

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|                |                                 |  |
|----------------|---------------------------------|--|
| PRODUCT ID     | 021120S                         | <b>Structure</b><br> |
| PRODUCT        | Isorhamnetin                    |  |
| STANDARD TYPE  | Quantitative Reference Material |  |
| LOT NUMBER     | 1203196                         |  |
| ASSAY METHOD   | HPLC,MS,NMR                     |  |
| DATE OF SAMPLE | 2012-02-29                      |  |
| DATE OF REPORT | 2012-02-29                      |  |

|                      |   |
|----------------------|---|
| CHEMICAL NAME        | 3,5,7-trihydroxy-2-(4-hydroxy-3-methoxyphenyl)chromen-4-one |
| OTHER NAME           | 3-Methylquercetin   |
| CHEMICAL FORMULA     | C <sub>16</sub> H <sub>12</sub> O <sub>7</sub>              |
| MOLECULAR WEIGHT(MW) | 316.26228   |
| CAS NUMBER           | 480-19-3  |
| CHEMICAL FAMILY      | Flavonoids  |
| FROM                 | Ginkgo biloba Leaf P.E.                                     |

## ANALYTICAL RESULT

| TEST             | METHOD        | SPECIFICATION | RESULT   |
|------------------|---------------|---------------|----------|
| HPLC             | Q/TFFK14—2004 | NLT ≥98.0%    | Conforms |
| NMR              |               | Conforms      | Conforms |
| MS               |               | Conforms      | Conforms |
| Residual Solvent | Q/TFFK14—2004 | NA            | ND       |
| Water            | Q/TFFK14—2004 | ≤2%           | Conforms |
| Appearance       |               | yellow powder | Conforms |

## STORAGE CONDITIONS

|            |                          |
|------------|--------------------------|
| STORAGE    | Store at 4°C in the dark |
| SHELF LIFE | 2 Years                  |



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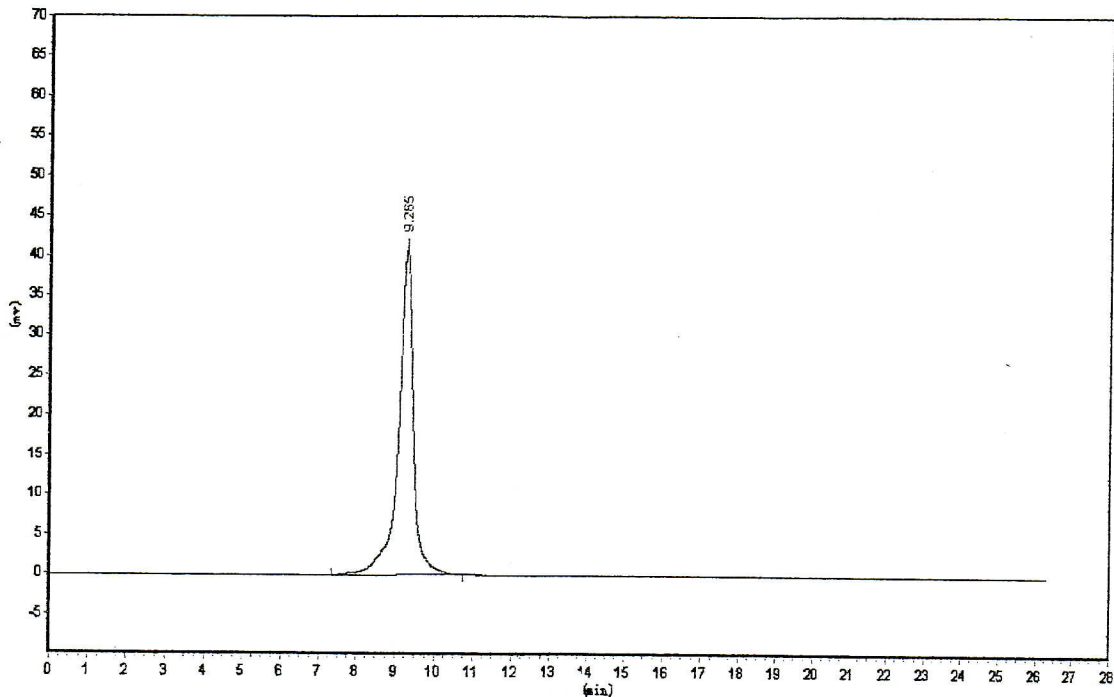
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## Product Analysis Report

|                      |              |                      |                  |
|----------------------|--------------|----------------------|------------------|
| <b>Product Name:</b> | Isorhamnetin | <b>Chrom-Column:</b> | Arcus C18        |
| <b>Lot Number:</b>   | 1203196      | <b>Mobile Phase:</b> | MeOH:H3PO4=60:40 |
| <b>Temperature:</b>  | 30°C         | <b>Wavelength:</b>   | 360nm            |
| <b>Detect Time:</b>  | 2012-02-29   | <b>Inject Vol:</b>   | 5µL              |
|                      |              | <b>Flow:</b>         | 1ml/min          |



| No. | Ret. Time<br>min | Height<br>mAU | Area<br>mAU*min | Rel.Area<br>% |
|-----|------------------|---------------|-----------------|---------------|
| 1   | 9.265            | 40816.797     | 1094433.750     | 100.0000      |