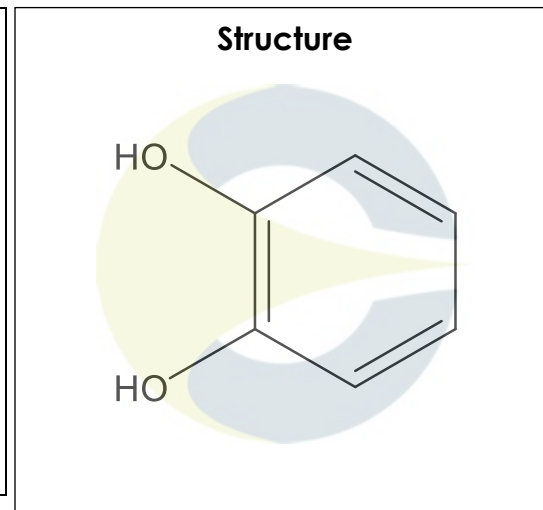


**Certificate of Analysis**
*For Laboratory Use Only*

|                              |  |
|------------------------------|--|
| <b>PRODUCT NAME</b>          | Catechol   |
| <b>PART NUMBER</b>           | 00003291   |
| <b>STANDARD TYPE</b>         | Analytical Standard (AS)                                     |
| <b>LOT NUMBER</b>            | 00003291-657   |
| <b>REPORT NUMBER</b>         | CDXA-RSS-5754-02   |
| <b>SAMPLE NUMBER</b>         | CDXA-13-5414   |
| <b>DATE OF SAMPLE</b>        | 08/12/2013   |
| <b>DATE OF RE-EVALUATION</b> | 10/12/2017 (1 <sup>st</sup> ); 09/02/2021 (2 <sup>nd</sup> ) |
| <b>DATE OF REPORT</b>        | 09/20/2021   |



|                              |   |
|------------------------------|---|
| <b>CHEMICAL NAMES</b>        | 1,2-Benzenediol; 1,2-Dihydroxybenzene; 2-Hydroxyphenol; Oxyphenic acid; Phthalhydroquinone; Pyrocatechin; ortho-Hydroquinone; ortho-Phenylenediol |
| <b>CHEMICAL FORMULA</b>      | C <sub>6</sub> H <sub>6</sub> O <sub>2</sub>  |
| <b>MOLECULAR WEIGHT (MW)</b> | 110.11  |
| <b>CHEMICAL FAMILY</b>       | Phenolics   |
| <b>CAS NUMBER</b>            | [120-80-9]  |
| <b>EC#(EINECS)</b>           | 204-427-5   |
| <b>RTECS</b>                 | UX1050000   |

**ANALYTICAL RESULTS**

| TEST          | METHOD             | SPECIFICATION | RESULT      |
|---------------|--------------------|---------------|-------------|
| GC            | 0.700.10.2.METH140 | ≥ 75%         | 99.6%       |
| Mass Spectrum | 0.700.10.2.METH140 | Conforms      | Conforms    |
| Appearance    | NA                 | NA            | Brown Solid |

**STORAGE CONDITIONS**

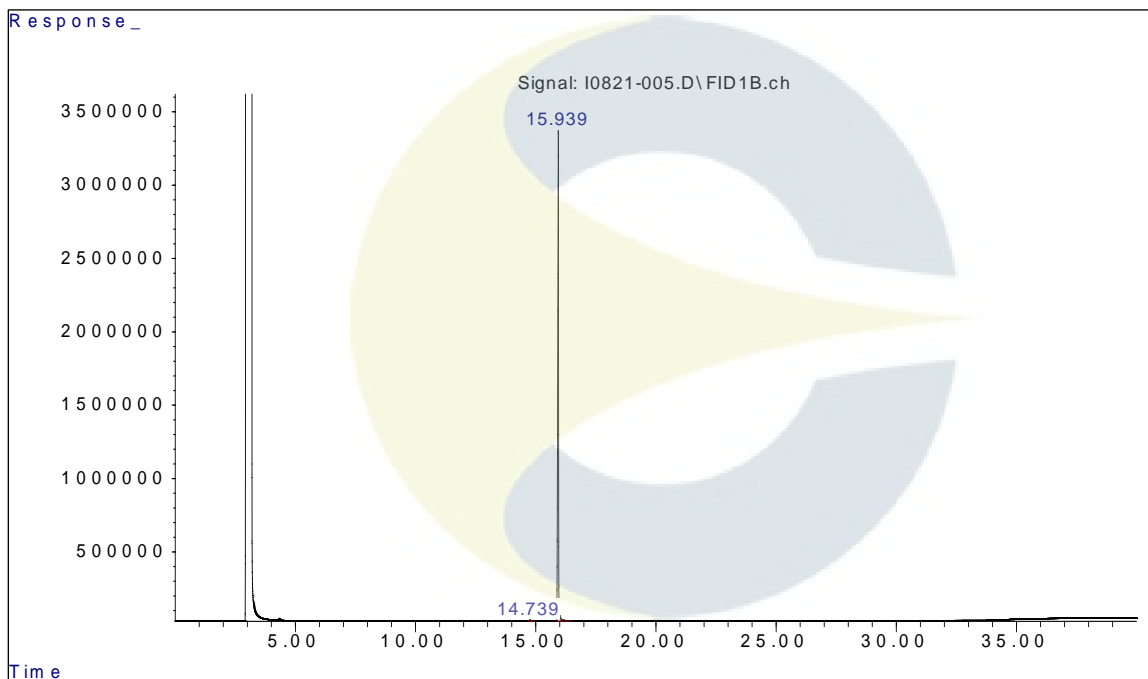
|                        |                                     |
|------------------------|-------------------------------------|
| <b>STORAGE</b>         | +4 °C in a dry place.               |
| <b>EXPIRATION DATE</b> | 09/2026 under the above conditions. |

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**ANALYTICAL CONDITIONS**

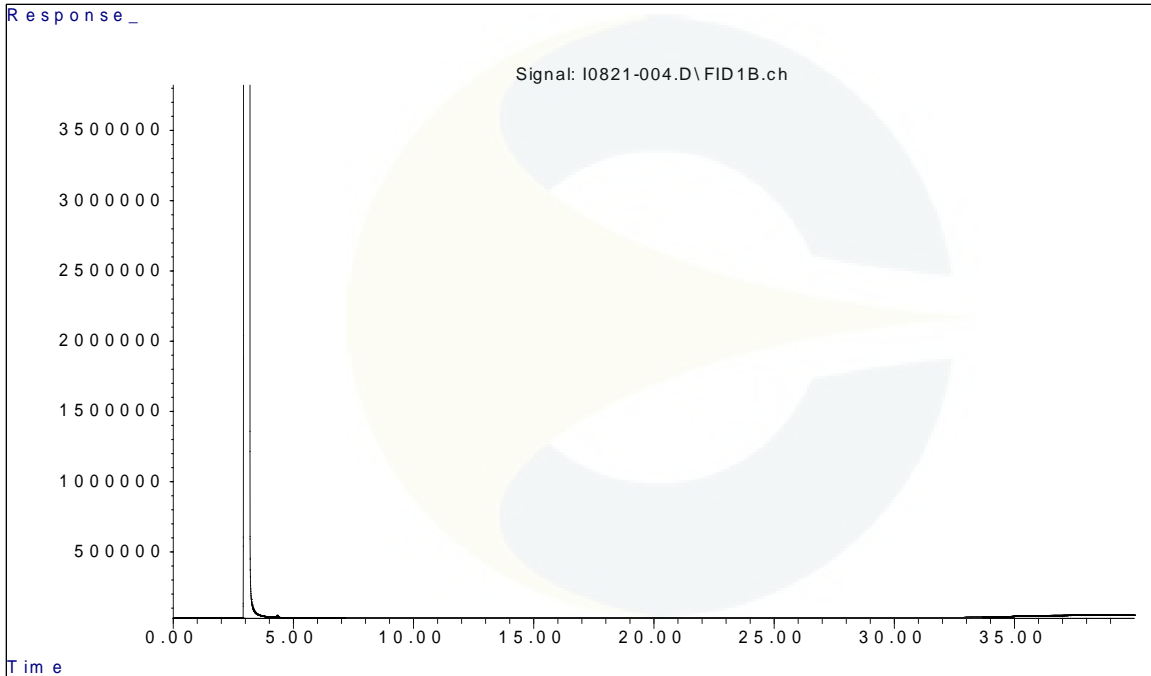
|                             |  |
|-----------------------------|--|
| <b>INSTRUMENT</b>           | AGILENT 7890B WITH FLAME IONIZATION DETECTOR (FID) AND AGILENT 5977B MASS SELECTIVE DETECTOR (MSD)             |
| <b>COLUMN</b>               | Phenomenex Zebron ZB-5plus, 30 m x 0.32 mm x 0.25 µm   |
| <b>CARRIER GAS</b>          | Helium   |
| <b>COLUMN TEMP.</b>         | Isothermic 40 °C for 5.0 minutes, then increasing at 10.0 °C/minute to 340 °C. Hold at 340 °C for 5.0 minutes. |
| <b>FLOW RATE</b>            | 2.0 mL/minute  |
| <b>INJECTOR TEMP.</b>       | 300 °C   |
| <b>INJECTOR SPLIT RATIO</b> | 20:1   |
| <b>INJECTION VOL.</b>       | 1.0 µL   |
| <b>INJECTION CONC.</b>      | 2.0 mg/mL in methanol  |
| <b>DETECTION</b>            | FID (300 °C) & MSD (Transfer line 280 °C, Source 230 °C, Quad 150 °C)  |

**GC CHROMATOGRAM OF CATECHOL (CDXA-13-5414)**

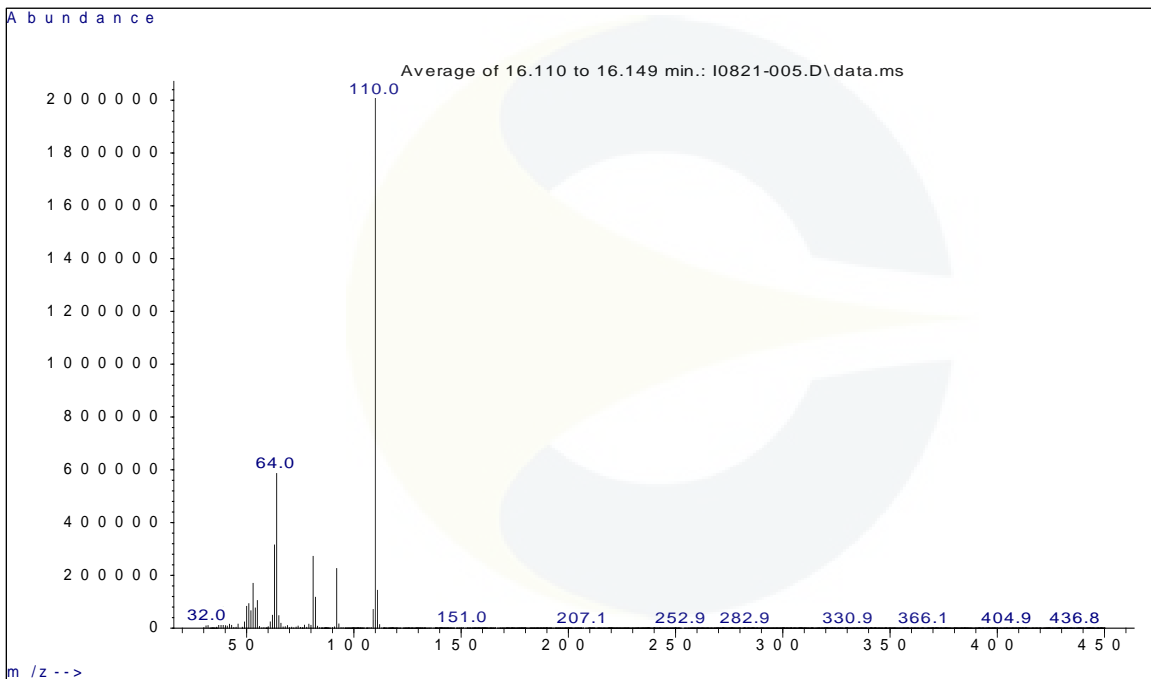


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**GC CHROMATOGRAM OF DILUENT BLANK**



**MASS SPECTRUM OF CATECHOL (CDXA-13-5414)**



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**REVISION HISTORY**

| <u>Revision History</u> | <u>Date of Revision</u> | <u>Document/Changes</u>  |
|-------------------------|-------------------------|--|
| 00                      | 09/05/2013              | New report   |
| 01                      | 11/28/2017              | Passed 1 <sup>st</sup> Re-Eval; updated expiration date, analytical conditions, methods, and chromatograms; removed melting point. |
| 02                      | 09/20/2021              | Passed 2 <sup>nd</sup> Re-Eval; Updated expiration date, analytical conditions, methods, results, and chromatograms/spectrum.      |

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