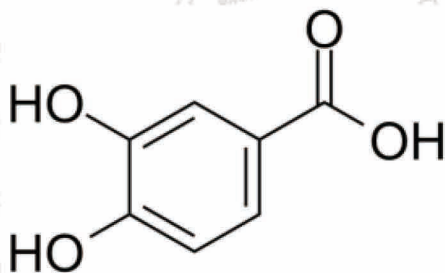


## CERTIFICATE OF ANALYSIS

**Product Name:** Protocatechuic acid

**Chemical Structure:**



**Lot Number:** 229859CS6092

**CAT Number:** APL-0099503

**CAS Registry Number:** 99-50-3

**Manufacture Date:** 08/2022

**Expiry Date:** 08/2024

**Molecular Formula:** C<sub>7</sub>H<sub>6</sub>O<sub>4</sub>

**Molecular Weight:** 154.12

**Storage:** 2-8°C

## Analysis Data

| Item                        | Specification              | Results  |
|-----------------------------|----------------------------|----------|
| Appearance                  | White to off-white (Solid) | Conforms |
| <sup>1</sup> H NMR Spectrum | Consistent with structure  | Conforms |
| Purity (HPLC)               | ≥ 99.00 %                  | 99.98 %  |

The foregoing is a copy of the Certificate of Analysis as provided by our supplier

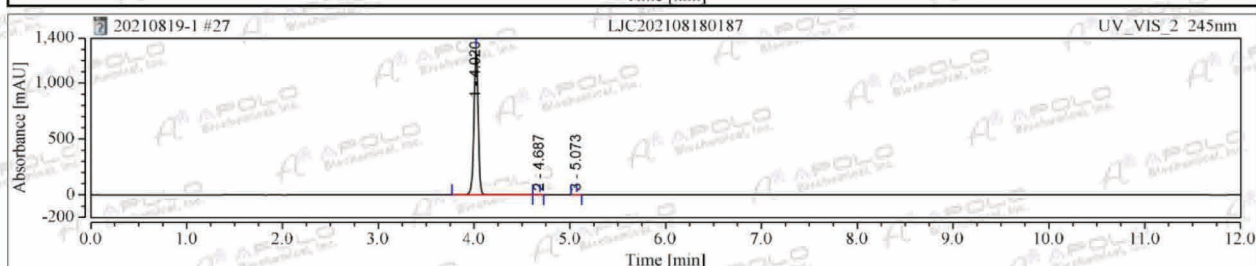
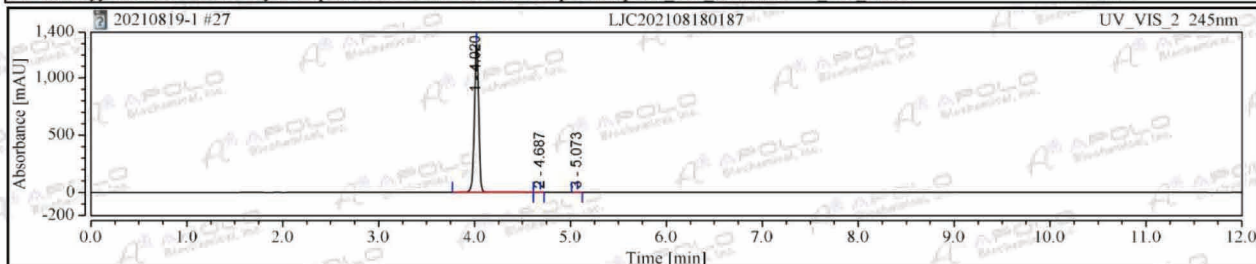
**Jennifer LaBrecque 09/2022**  
Quality Assurance Manager

**Conclusion:** The above product meets the specifications of APOLO

## Chromatogram and Results

|                        |                     |                         |                  |
|------------------------|---------------------|-------------------------|------------------|
| Injection Name:        | LJC202108180187     | Channel:                | UV_VIS_2         |
| Vial Number:           | BC4                 | Wavelength:             | 245.0            |
| Injection Type:        | Unknown             | Injection Volume:       | 5.00             |
| Instrument:            | AHC004              | Injection Time:         | 19/08/2021 16:32 |
| Instrument Method:     | 10-80A-12min        | InstMeth.creation_time: | 11/05/2020 13:41 |
| Processing Method:     | PM-180187           | Last update_time:       | 19/08/2021 17:10 |
| seq.creation_operator: | Abaogd              | Data Operator:          | Abaogd           |
| CAS NO.:               | 99-50-3, ARP-201906 | Print Operator:         | Abaogd           |

chrom://ahyy-cm7/CM7DATA/Leyan/Sequence/AHC004/20210819-1.seq/606.smp/UV\_VIS\_2.channel/UV\_VIS\_2.chm



| No.    | Retention Time<br>min | Area<br>mAU*min | Height<br>mAU | Plates (USP) | Resolution (USP) | Asymmetry (USP) | Rel.Area<br>% | Peak Name |
|--------|-----------------------|-----------------|---------------|--------------|------------------|-----------------|---------------|-----------|
| 1      | 4.020                 | 66.673          | 1298.271      | 40940        | 9.50             | 0.98            | 99.981        |           |
| 2      | 4.687                 | 0.009           | 0.193         | 94985        | 6.07             | 0.74            | 0.014         |           |
| 3      | 5.073                 | 0.004           | 0.088         | 93012        | n.a.             | 0.89            | 0.005         |           |
| Total: |                       | 66.685          | 1298.552      |              | 15.58            |                 |               |           |

CAS NO.: 99-50-3, DMSO

