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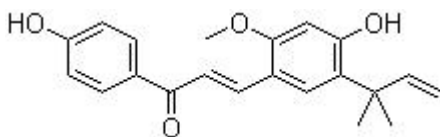
成都瑞芬思生物科技有限公司

Batch NO: G-033-171103

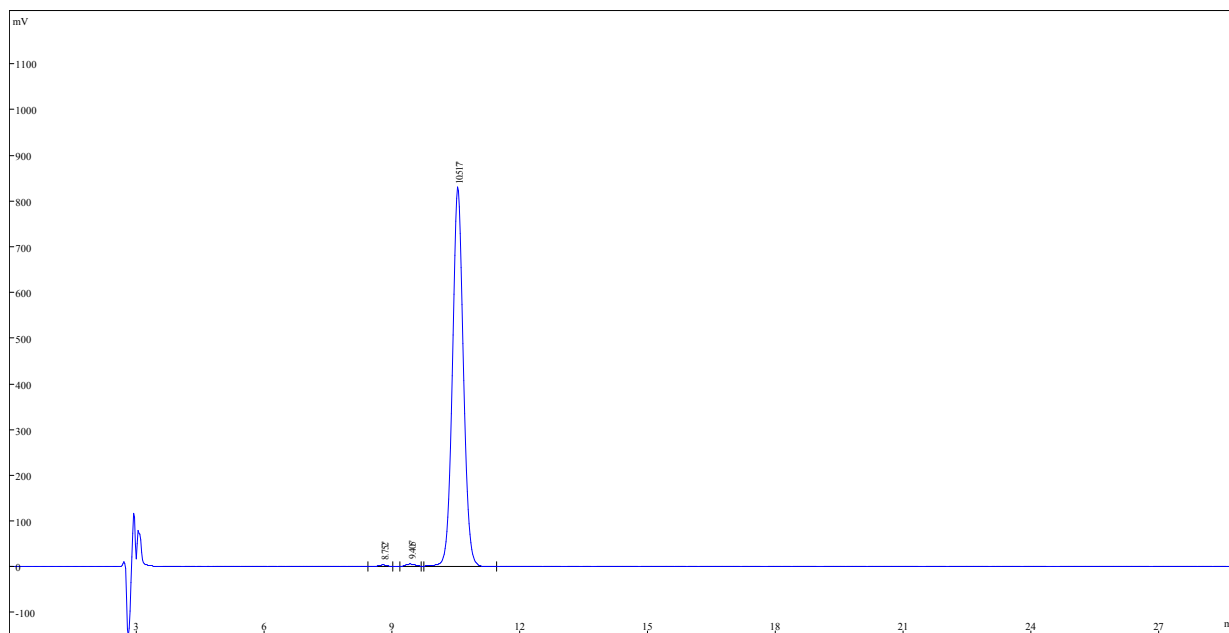
### Certificate Of Analysis

|                |                                                |                  |               |
|----------------|------------------------------------------------|------------------|---------------|
| Chinese Name   | 甘草查尔酮 A                                        | Botanical Source | liquorice     |
| English Name   | Licochalcone A                                 | CAS Number       | 58749-22-7    |
| Mol. Formula   | C <sub>21</sub> H <sub>22</sub> O <sub>4</sub> | Mol. Weight      | 338.40        |
| Solubility     | Methanol                                       | Appearance       | Yellow powder |
| Loss on drying | ≤2.0%                                          | Purity           | 99.16%        |
| QC             | HPLC: 甲醇: 1%乙酸=76:24 波长 372nm                  |                  |               |

Structure



### Licochalcone A HPLC



| Peak#   | Ret time[min]                                                                                                                                                                                                                                                | Area%    | Area     | Height | Resolution | N     | Effective plate number | T    |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|--------|------------|-------|------------------------|------|
| 1       | 8.752                                                                                                                                                                                                                                                        | 0.3903   | 58177    | 3967   | 1.70       | 8312  | 0                      | 1.12 |
| 2       | 9.405                                                                                                                                                                                                                                                        | 0.4491   | 66940    | 4714   | 2.61       | 10236 | 49                     | 1.11 |
| 3       | 10.517                                                                                                                                                                                                                                                       | 99.16    | 14779075 | 831202 | 2.50       | 8163  | 230                    | 1.05 |
| Total   | 100                                                                                                                                                                                                                                                          | 14904192 | 839883   |        |            |       |                        |      |
| Storage | Stored without light and heat. Stored in cool, dry, airproof and innocuous conditions                                                                                                                                                                        |          |          |        |            |       |                        |      |
| Remarks | 即配即用, 仅限于实验时使用, 不能用于人体。<br>如遇质量问题, 请于收到产品之日起 15 日内与我们联系。<br>Namely with the use, only in the experimental use, can not be used for the human body.<br>In case of quality problems, please contact us within 15 days from the date of receipt of the product. |          |          |        |            |       |                        |      |

Review date : 2017-11-03

Report date : 2017-11-03

Operator: Chenli

Q.C manager: Zhengxin