Precision test: 1.0 mL allopurinol standard (0.01 mg/mL) was taken and the peak area was measured 4 times, each time. The sample size was 10 μL, and the results were shown in Table S1.

The relative standard deviation was 0.11%, indicating good experimental precision.

Table S1. Instrument precision test results table.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| NO. | 1 | 2 | 3 | 4 | 5 | RSD (%) |
| Peak area | 6399 | 6400 | 6405 | 6395 | 6413 | 0.11 |

Tability test: 1.0 mL allopurinol standard substance (0.01 mg/mL) was taken and placed at room temperature for 40, 80, 120, 160 and 180 min, respectively, The samples were all 10 μL, and its peak area was measured.

The results were shown in Table S2, and its RSD was 0.10%, indicating good stability.

Table S2. Stability test results table.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| NO. | 1 | 2 | 3 | 4 | 5 | RSD (%) |
| Peak area | 6403 | 6398 | 6412 | 6402 | 6395 | 0.10 |