**Supporting Information to:**

**Discovery of conversion driven by *β*-glucuronidase from flavone glycoside to aglycone and application in identifying the raw Scutellariae Radix**

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Table S1 The detailed information of SR collected from different origins

|  |  |  |
| --- | --- | --- |
| Batch No. | Origin | Purchase Location |
| R1 | Hebei, China | Self-made |
| R2 | Hebei, China | Self-made |
| R3 | Hebei, China | Self-made |
| S1 | Hebei, China | Self-made |
| S2 | Hebei, China | Self-made |
| S3 | Hebei, China | Self-made |
| W1 | Hebei, China | Self-made |
| W2 | Hebei, China | Self-made |
| W3 | Hebei, China | Self-made |
| R4 | Shaanxi, China | Anguo Traditional Chinese Medicine Digital Palace |
| R5 | Shaanxi, China | Anguo Traditional Chinese Medicine Digital Palace |
| R6 | Shaanxi, China | Anguo Traditional Chinese Medicine Digital Palace |
| R7 | Shanxi, China | Anguo Traditional Chinese Medicine Digital Palace |
| R8 | Shanxi, China | Anguo Traditional Chinese Medicine Digital Palace |
| R9 | Shanxi, China | Anguo Traditional Chinese Medicine Digital Palace |
| R10 | Shanxi, China | Anguo Traditional Chinese Medicine Digital Palace |
| R11 | Shanxi, China | Anguo Traditional Chinese Medicine Digital Palace |
| R12 | Shanxi, China | Anguo Traditional Chinese Medicine Digital Palace |
| R13 | Neimeng, China | Anguo Traditional Chinese Medicine Digital Palace |
| S4 | Shaanxi, China | Anguo Traditional Chinese Medicine Digital Palace |
| S5 | Shaanxi, China | Anguo Traditional Chinese Medicine Digital Palace |
| S6 | Shanxi, China | Anguo Traditional Chinese Medicine Digital Palace |
| S7 | Shanxi, China | Anguo Traditional Chinese Medicine Digital Palace |
| S8 | Shanxi, China | Anguo Traditional Chinese Medicine Digital Palace |
| S9 | Shanxi, China | Anguo Traditional Chinese Medicine Digital Palace |
| S10 | Shanxi, China | Anguo Traditional Chinese Medicine Digital Palace |
| S11 | Shanxi, China | Anguo Traditional Chinese Medicine Digital Palace |
| S12 | Shaanxi, China | Anguo Traditional Chinese Medicine Digital Palace |
| S13 | Shaanxi, China | Anguo Traditional Chinese Medicine Digital Palace |
| W4 | Shanxi, China | Anguo Traditional Chinese Medicine Digital Palace |
| W5 | Shanxi, China | Anguo Traditional Chinese Medicine Digital Palace |
| W6 | Shanxi, China | Anguo Traditional Chinese Medicine Digital Palace |
| W7 | Shanxi, China | Anguo Traditional Chinese Medicine Digital Palace |
| W8 | Shanxi, China | Anguo Traditional Chinese Medicine Digital Palace |
| W9 | Neimeng, China | Anguo Traditional Chinese Medicine Digital Palace |
| W10 | Shanxi, China | Anguo Traditional Chinese Medicine Digital Palace |
| W11 | Shanxi, China | Anguo Traditional Chinese Medicine Digital Palace |
| W12 | Shaanxi, China | Anguo Traditional Chinese Medicine Digital Palace |

Table S2 Methodological validation for simultaneous quantification of four compounds in SR

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Compounds | Linear regression | LOD | LOQ | Precision (RSD, %) | Repeatability  | Stability  |  Recovery |
| Regression equation | *r*2 | Linear range (μg/mL) | (μg/mL) | (μg/mL) | Intra-day(*n* = 6) | Inter-day(*n* = 3) | (*n* = 6, RSD, %) | (*n* = 6, RSD, %) | (*n* = 6, Mean ± SD, %) |
| BC | *y* = 21614*x*−863.07 | 0.9999 | 1.374-351.8 | 0.051 | 0.153 | 0.12 | 0.84 | 1.8 | 0.34 | 104.8 ± 1.2 |
| WS | *y* = 25060*x*−1271.3 | 0.9999 | 0.2350-60.16 | 0.026 | 0.078 | 0.86 | 0.96 | 1.8 | 1.2 | 103.4 ± 1.9 |
| BN | *y* = 31331*x*−3526.8 | 0.9999 | 0.09843-25.20 | 0.033 | 0.098 | 1.2 | 2.3  | 1.3 | 0.73 | 102.3 ± 1.1 |
| WN | *y* = 36822*x*−454.97 | 0.9999 | 0.02480-6.348 | 0.0083 | 0.024 | 2.1 | 0.75 | 2.7 | 1.6 | 102.5 ± 2.1 |