**Supplement 11.**

**The composition (%) of powdered herbal preparations (HRG80TM and WGTM) and their extracts (HRG and WG) used *in vitro* experiments:**

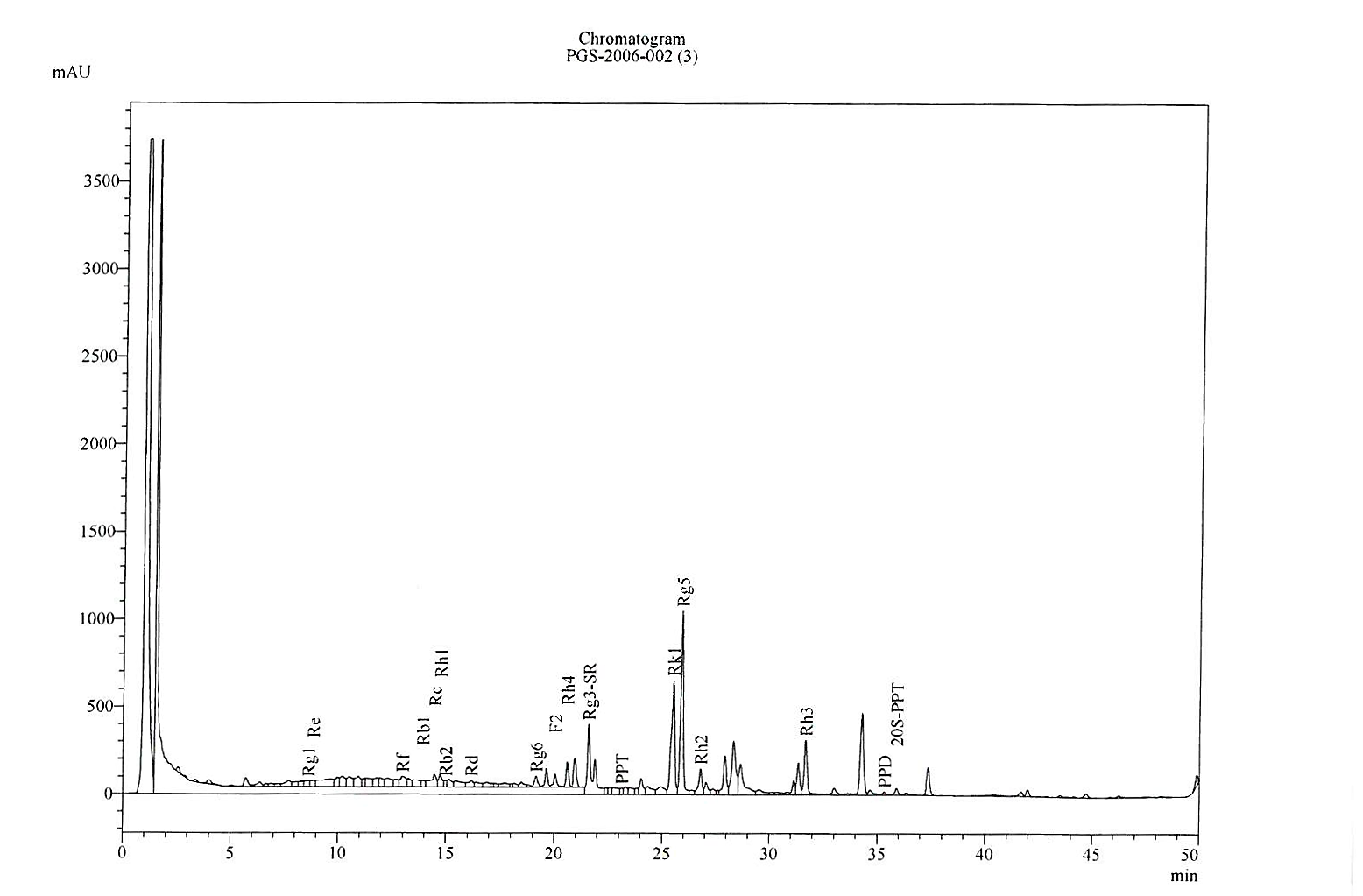
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Extract of red ginseng**  **(HRG)** | **Extract of white ginseng**  **(WG)** | **Red ginseng**  **Dry powder**  **(HRG80TM)** | **White ginseng**  **Dry powder**  **(WGTM)** |
| Rg1 | 0.093 | 0.138 | 0.023 | 0.035 |
| Re | 0.455 | 2.695 | 0.114 | 0.678 |
| Rf | 0.322 | 0.322 | 0.081 | 0.081 |
| Rb1 | 0.183 | 4.250 | 0.046 | 1.069 |
| Rg2 | 0.000 | 0.141 | 0.00 | 0.035 |
| Rc | 1.886 | 3.402 | 0.473 | 0.856 |
| Rh1 | 0.282 | 0,00 | 0.071 | 0.00 |
| Rb2 | 0.517 | 4.309 | 0.130 | 1.084 |
| F1 | 0.019 | 0.035 | 0.005 | 0.009 |
| Rd | 1.904 | 3.810 | 0.477 | 0.958 |
| Rg6 | 0.868 | 0.058 | 0.218 | 0.015 |
| F2 | 0.524 | 1.413 | 0.131 | 0.355 |
| Rh4 | 4.356 | 0.722 | 1.092 | 0.182 |
| Rg3-(S-R) | 4.307 | 0.309 | 1.080 | 0.078 |
| PPT (20-R) | 0.087 | 0.014 | 0.022 | 0.004 |
| Rk1 | 4.027 | 0.112 | 1.009 | 0.028 |
| C(k) | 0,000 | 0,000 | 0.00 | 0.00 |
| **Rg5** | **7.534** | **0.031** | **1.888** | 0.008 |
| Rh2 | 0.924 | 0.117 | 0.232 | 0.029 |
| Rh3 | 1.817 | 0.015 | 0.455 | 0.004 |
| 20S-PPT | 0.061 | 0.187 | 0.015 | 0.047 |
| PPD | 0.150 | 0.073 | 0.038 | 0.018 |
| **Total** | **30.32** | **22.15** | **7.599** | **5.572** |

100 g HRG80 powder contains 25.06 g Extract (DER 4 : 1) including 7.6 g of total ginsenosides

100 g WG powder contains 25.16 g Extract (DER 4:1) including 5.57 g of total ginsenosides.

Abbreviations of test samples used in vitro experiments:

|  |  |
| --- | --- |
| Sample name | Concentration ng/ml |
| HRG1 | 10000 |
| HRG2 | 1000 |
| HRG3 | 100 |
| HRG4 | 10 |
| HRG5 | 0.01 |



HRG80

**Figure 1**. HPLC fingerprint.