

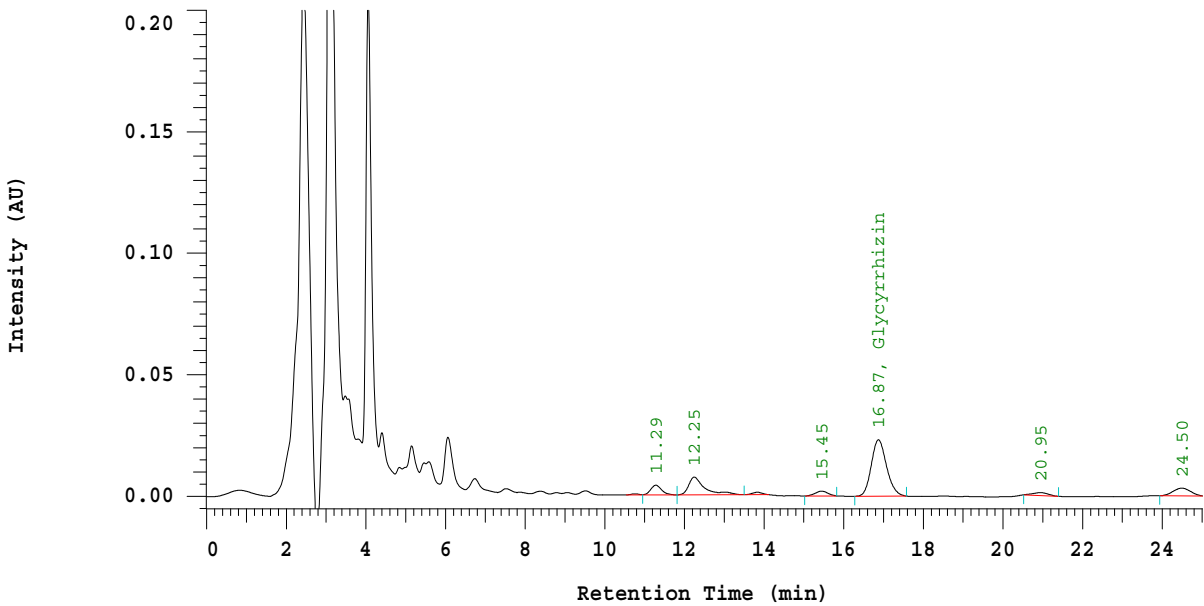
Supplementary Information

HPLC Analysis

The high-performance liquid chromatographic (HPLC) was performed on a system equipped with HITACHI 7000 system (Shinko, Kobe, Japan) including Autosampler L-7200, L-7400 UV detector, Column oven L-7300 and Interface D-7000. Glycyrrhizin and geniposide were two reference makers applied for HPLC analysis. Chromatographic separation of these two makers was performed on a 5C₁₈-AR-II column (4.6ID × 250 mm) maintained at ambient temperature (24 ± 1 °C). The mobile phase of HPLC analysis for glycyrrhizin consisted of a mixture of 2% acetic acid solution and acetonitrile (35:65). The mobile phase of HPLC analysis for geniposide consisted of a mixture of acetonitrile and H₂O (13:87). The flow rate for HPLC analysis was 1.0 mL/min. The fraction was chromatographed to isolated glycyrrhizin and geniposide were 0.401%, 0.547%, respectively.

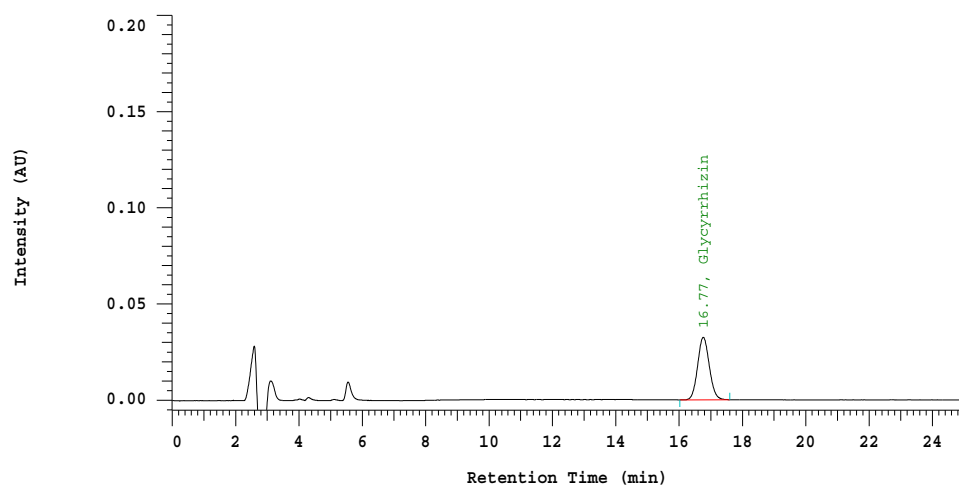
Figure S1. BO contained glycyrrhizin.

D-7000 HPLC System Manager Report			
Analyzed	2014/7/10 02:41:00 PM		
Processing Method	Gly-2%CH ₃ COOH:CH ₃ CN = 65:35, 12		
System Name	Sys 1	Series	4105
Application	Glycyrrhizin	Vial Number	3
Sample Name	Bofu-tsusho-san T103-07-14	Vial Type	UNK
Injection from vial	1 of 1	Volume	10.0 µL



D-7000 HPLC System Manager Report			
Analyzed	2014/7/10 01:05:00 PM		
Processing Method	Gly-2%CH ₃ COOH:CH ₃ CN = 65:35, 12		
System Name	Sys 1	Series	4105
Application	Glycyrrhizin	Vial Number	1
Sample Name	Glycyrrhizin 0.0546mg/mL	Vial Type	STD3
Injection from vial	1 of 1	Volume	10.0 µL

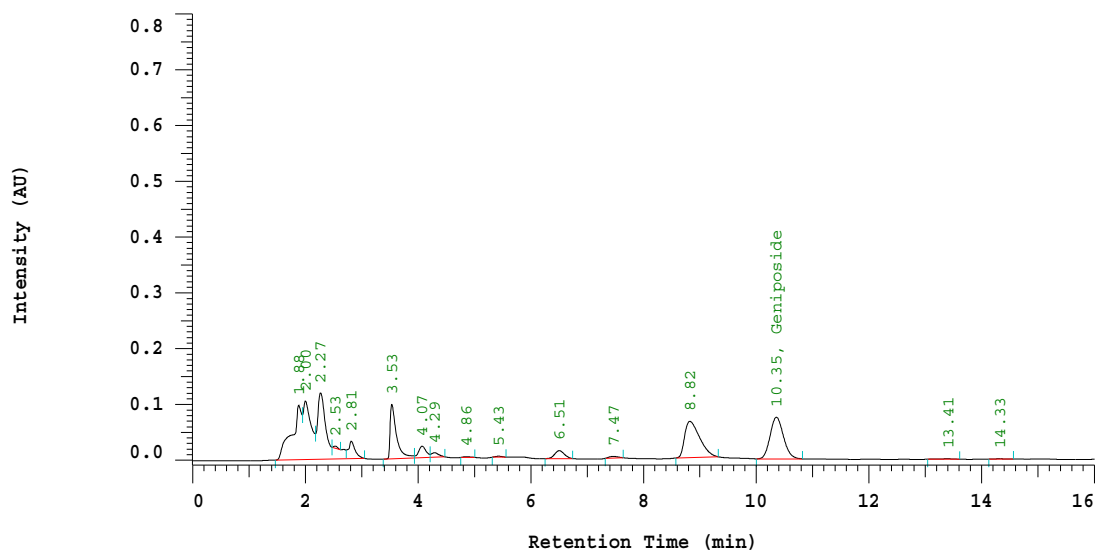
Figure S1. Cont.



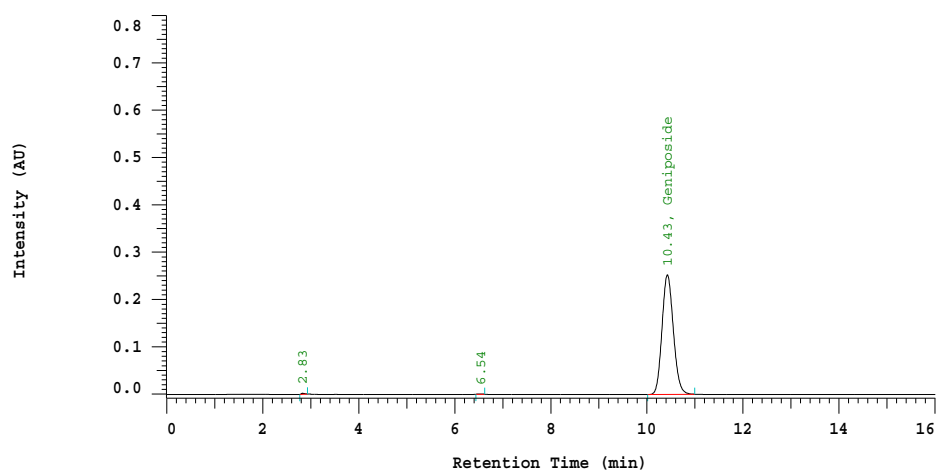
$$\text{Glycyrrhizin} = 305716/414186 \times 0.0546 \times 100/1005.7 \times 1000 = 4.01 \text{ (mg/g)}$$

Figure S2. BO contained geniposide.

D-7000 HPLC System Manager Report			
Analyzed	2014/7/10 0:21:00 AM		
Processing Method	gep-m12		
System Name	Sys 2	Series	4040
Application	geniposide	Vial Number	3
Sample Name	Bofu-tsusho-san T103-07-14	Vial Type	UNK
Injection from vial	1 of 1	Volume	10.0 µL



D-7000 HPLC System Manager Report			
Analyzed	2014/7/10 10:21:00 AM		
Processing Method	gep-m12		
System Name	Sys 2	Series	4040
Application	geniposide	Vial Number	3
Sample Name	Bofu-tsusho-san T103-07-14	Vial Type	UNK
Injection from vial	1 of 1	Volume	10.0 µL

Figure S2. *Cont.*

$$\text{Geniposide} = 611233/2068489 \times 0.1862 \times 100/1005.7 \times 1000 = 5.47 \text{ (mg/g)}$$