

## Certificate of Analysis

<b>Product Name</b>	18-Beta-Glycyrrhetic acid	<b>Mfg. Date</b>	2020.05.19
<b>Batch No.</b>	KN0320051203	<b>Testing Date</b>	2020.05.21
<b>CAS No.</b>	471-53-4	<b>Exp. Date</b>	2022.05.18

Items	Specifications	Results
Appearance	White crystalline powder	Complies
Odor	Odorless	Complies
Taste	Tasteless	Complies
Solubility	Easily soluble in pyridine, dissolve in ethanol or chloroform, slightly soluble in gasoline or ether, and insoluble in water	Complies
Identification	Should conform with the Standard	Complies
Melting point	288~297 °C	293 °C
Clarity of Ethanol solution	Should comply with the Standard	Complies
Glycyrrhizinate	Should comply with the Standard	Complies
Loss on drying	≤1.0%	0.4%
Residue on ignition	≤0.1%	0.03%
Chloride	≤0.1%	0.053%
SO <sub>4</sub> <sup>2-</sup>	≤0.02%	0.015%
As <sup>+</sup>	≤5ppm	3ppm
Heavy metals	≤10ppm	6ppm
Assay	Calculated on loss on drying, the Content of 18-Beta-Glycyrrhetic acid is no less than 97.0%.	98.6%
Conclusion:	The product complies with the standard of CP2015	
Inspection	Xu Ke                      Liu Yun	
Review	Yang Jinbo	Quality assurance officer      Wang Jie