



# CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-279186  
Lot Number: SAMPLE  
Product Name: Glycyrrhizic acid  
CAS Number: 1405-86-3  
Molecular Formula:  $C_{42}H_{62}O_{16}$   
Molecular Weight: 822.93

| Test                                  | Specification   | Result           |
|---------------------------------------|---|------------------|
| Purity (HPLC)                         | $\geq 75.0$ area%   | 80.6 area%       |
| Purity (Neutralization Titration)     | $\geq 93.0\%$ (calcd. on anh. substance)                          | 97.4%            |
| Specific Rotation ( $\alpha_{20/D}$ ) | +57.0 - 64.0 $^{\circ}$ (c = 1.5, EtOH)(calcd. on anh. substance) | +58.6 $^{\circ}$ |
| Water Content                         | $\leq 7.0\%$  | 3.5%             |

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

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