

ASES CHEMICAL WORKS

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CERTIFICATE OF ANALYSIS

| | |
|-------------------------|----------------------------------------------------|
| 1. Name of the Product | Licorice Extract |
| 2. INCI Name | Glycyrrhiza glabra |
| 3. Molecular Formula | C ₄₂ H ₆₂ O ₁₆ Zn |
| 4. CAS Number | 56-81-5, 7732 -18-5, 84775-66-6, 122-99-6 |
| 5. Batch No & Mfg. Date | As mentioned on Label |
| 6. Date Of Exp | 12 Months From MFG |
| 7. Date of Analysis | |

| SN. | Parameters | Specification | Results | Test Protocol |
|------------------------------|-----------------------------|-------------------------------|----------|----------------|
| 1 | Botanical Name | Glycyrrhiza glabra | Complies | |
| 2 | Description | Transparent colourless liquid | Complies | Visual |
| 3 | Water solubility | Soluble | Complies | IP 2014 |
| 4 | Propylene glycol solubility | Soluble | Complies | IP 2014 |
| 5 | Specific gravity (20°C) | 1.020-1.050 | 1.034 | IP 2014 |
| 6 | Dry residue 105°C | 0.5% - 2.0% | 1.59% | IP 2014 |
| 7 | pH | 4 - 7 | 5.48 | IP 2014 |
| Heavy Metals | | | | |
| 8 | Arsenic | NMT 1ppm | Complies | ''AOAC''Method |
| 9 | Lead | NMT 1ppm | Complies | ''AOAC''Method |
| 10 | Mercury | NMT 1ppm | Complies | ''AOAC''Method |
| 11 | Cadmium | NMT 0.5ppm | Complies | ''AOAC''Method |
| Microbiological Tests | | | | |
| 12 | Total Aerobic Bacteria | NMT 5000 cfu/gm | Complies | USP |
| 13 | Yeast and Moulds | NMT 200 cfu/gm | Complies | USP |
| 14 | Escherichia coli | Absent | Absent | USP |
| 15 | Salmonella | Absent | Absent | USP |
| 16 | Staphylococcus aureus | Absent | Absent | USP |
| 17 | Pseudomonas aeruginosa | Absent | Absent | USP |

There is likely to be minor color variation because of the geographical and Seasonal variations of the raw material
Legend:NLT= not less than, NMT=Not more than, CFU=Colony forming unit/gram