

ASES CHEMICAL WORKS

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CERTIFICATE OF ANALYSIS

1. Name of the Product	Willow Bark Liquid Extract
2. INCI Name	Salix Nigra Bark Extract
3. CAS Number	84650-64-6
4. Batch No & Mfg. Date	As mentioned on Label
5. Date Of Exp	12 Months From MFG
6. Date of Analysis	

SN.	Parameters	Specification	Results	Test Protocol
1	Botanical Name	Salix alba	Complies
2	Description	Transparent colorless liquid	Complies	Visual
3	pH@20°C	4 – 7	5.49	IP 2014
4	Water solubility	Soluble	Complies	IP 2014
5	Propylene glycol solubility	Soluble	Complies	IP 2014
6	Specific gravity (20°C)	1.020-1.050	1.024	IP 2014
7	Dry residue 105°C	0.5%-2.0%	1.38%	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	US

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