

ASES CHEMICAL WORKS

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CERTIFICATE OF ANALYSIS

1. Name of the Product Grapefruit Liquid Extract
2. INCI Name Citrus Paradisi Fruit Extract
3. CAS Number 8016-20-4
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	Citrus Paradisi	Complies
2	Description	Transparent colourless liquid	Complies	Visual
3	pH of 1 % w/v aq. soln	4-7	5.43	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	1.026	IP 2014
7	Dry residue 105°C	0.5%-2.0%	1.28%	IP 2014
Heavy Metals				
	Arsenic	NMT 1ppm	Complies	"AOAC" Method
	Lead	NMT 1ppm	Complies	"AOAC" Method
	Mercury	NMT 1ppm	Complies	"AOAC" Method
	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