

CERTIFICATE OF ANALYSIS -- **Silymarin**

Test Item	Specification & Standards	Result
Appearance	Amorphous Powder	Conforms
Colour	Yellow to Yellowish-Brown	Conforms
Odour	Slight, Specific	Conforms
Solubility in Water	Practically Insoluble	Conforms
Solubility in Methanol and Acetone	Soluble	Conforms
Sulphated Ash	NMT 0.6%	0.1
Heavy Metals	NMT 20 PPM	Conforms
Powder Size	80Mesh, NLT90%	Conforms
Loss on Drying (2 Hours 105 °C)	NMT 5.0%	2.3%
Assay of Silymarin (UV test)	Min. 80%	80.5
Assay of Total Silymarin (HPLC)	30% ~ 65%	41.9
- sum of silycristine & Silydianine	20% ~ 45%	28.6
- sum of silybin A & silybin B	40% ~ 65%	58.3
- sum of isosilybin A & isosilybin B	10% ~ 20%	13.1
Residual Solvents		
- N-hexane	NMT 290 PPM	Conforms
- Methanol	NMT 3000 PPM	Conforms
- Acetone	NMT 5000 PPM	Conforms
- Ethyl Acetate	NMT 5000 PPM	Conforms
- Ethanol	NMT 5000 PPM	Conforms
Pesticide Residues		
- Total DDT	NMT 0.05 PPM	Conforms
- Aldrin, Endrin, Dieldrin	NMT 0.01 PPM	Conforms
Microbiological Quality		
- Bacteria, CFU/g, not more than	10 ³	Conforms
- Moulds and yeasts, CFU/g, not more than	10 ²	Conforms
- E.coli, Salmonella, S.aureus, CFU/g	Absence	Conforms
Quality Assurance Officer	Corrector	Analyst

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