



HANGZHOU THINK CHEMICAL CO., LTD.

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CERTIFICATE OF ANALYSIS

Product: Silymarin 80% DAB10 (Milk Thistle Powder P.E.)		Batch No.: 20190110	Quantity: 1000 Kgs
Extraction Ratio 25:1	Extraction Ratio: Acetone	Produce Date: Jan.12 th , 2019	Report Date: Jan. 18 th , 2019
Part Used: Seed	Standardized as: 80% by UV	Expire Date: Jan. 11 th , 2022	Package: 25Kgs/Drum
Item	Standard		Result
Characteristics	Light Yellow Powder, no characteristic odor		Complies
Identification	Positive Reaction		Complies
Partification	100% pass 80 mesh		Complies
Clarity and Color of Solution	1% Methanol solution must be clarified		Complies
Solubility	Easy soluble in Acetone & Ethyl Acetate, in Methanol and Ethanol, practically insoluble in water		Complies
Heavy Metals	$\leq 10\text{ppm}$		$< 10\text{ ppm}$
Sulphated Ash	$\geq 0.6\%$		0.24%
Loss on drying (2 hours 105°C)	$\leq 5.0\%$		1.5%
Spectrophotometric Analysis (UV)	$\geq 80.0\%$		80.69%
Silybin & Isosilybin (HPLC)	$\geq 30.0\%$		32.27%
Microbiological Test			
Bacteria	$\leq 1000/\text{gr}$		91/gr
Moulds and Yeasts	$\leq 100/\text{gr}$		20/gr
E.Eoli	Absent		Negative
Pseudomonas Aeruginosa	Absent		Negative
Staphylococcus Aeruginosa	Absent		Negative
Salmonella	Absent		Negative
Residue Solvents			
Pesticides	$\leq 0.2\%$		$< 0.2\%$
BHC	$\leq 0.1\text{ppm}$		$< 0.1\text{ppm}$
DDT	$\leq 0.01\text{ppm}$		$< 0.01\text{ppm}$
Aldrin	$\leq 0.01\text{ppm}$		$< 0.01\text{ppm}$
Dieldrin	$\leq 0.01\text{ppm}$		$< 0.01\text{ppm}$
Eidrin	$\leq 0.01\text{ppm}$		$< 0.01\text{ppm}$
Conclusion	Complies with DAB10		

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