

CERTIFICATE OF ANALYSIS

MILK THISTLE EXTRACT (80% SILYMARIN)

Batch	Manufacturer	Manufactured	Expiration	Quantity
2024020101Z	35PJTP	01/02/2024	31/01/2027	1.000 Kg
Appearance	Faint yellowish- brown amorphous powder			complies
Identification	The retention time of peak-peak which shows in the chromatogram of the solution should conform to that of Standard solution			complies
Loss on drying	NMT 5.0%			2.9%
Ignition residue	NMT 0.5%			0.1%
Heavy metal	NMT 20ppm			complies
lead	<0.5ppm			complies
Cadmium	<1ppm			complies
Arsenic	<0.5ppm			complies
Mercury	<0.1ppm			complies
Mesh size	90% pass 80 mesh			complies
Residual solvents				
Hexame	≤290 ppm			complies
Acetone	≤5000 ppm			complies
Ethyl acetate	≤5000 ppm			complies
Methanol	≤3000 ppm			complies
Ethanol	≤5000 ppm			complies
Microbe Limit				
Total place count	≤1000 cfu/g			complies
Mould & yeasts	≤100 cfu/g			complies
Salmonella	Absent			Not detected

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E.Coli	Absent	Not detected
Benzo(a)piren	≤10ppb	complies
PAH4	≤50 ppb	complies
PAs	≤400 ppb	complies
Assay by HPLC		
Silymarin calculated as dried silybin	30% ~ 65%	46.1%
Silydianin & Silychristin/Silymarin	20% ~ 45%	30.4%
Silybin A & Silybin B/Silymarin	40% ~ 65%	58.1%
Isosilybin A & Isosilynin B /Silymarin	10% ~ 20%	11.5%
Assay by UV	80%	87.6%