



KEB
Biotechnology
昶辉生物

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Certificate of Analysis

Product Name: Milk Thistle Extract

Botanic Name: *Silybum marianum* (L.) Gaertn

Origin: P.R. China

Used Part: Seeds

Manufacture Date: Jan.24.2013

Extraction Solvent: Acetone

Analysis Date: Jan.25.2013

Non-Irradiated/Non-ETO/Treat by Heat only

Batch No.: SM130104


Analysis Item	Specification	Result	Method
Silymarin	≥80%	81.28%	UV
Silymarin	≥50%	51.56%	USP34-NF29
Silybin & Isosilybin	≥30%	31.02%	USP34-NF29
Appearance	Yellow powder	Complies	Visual
Odor	Characteristic	Complies	Organoleptic
Powder Size	95% through 80 mesh	Complies	80 mesh screen
Bulk Density	0.35-0.45g/cm3	0.39g/cm3	USP34-NF29<616>
Loss on drying	≤5.00%	1.99%	USP34-NF29<731>
Residue on ignition	≤0.50%	0.24%	USP34-NF29<281>
Residual Acetone	≤0.50%	≤0.30%	USP34-NF29<467>
Residual Hexane	≤0.029%	≤0.01%	USP34-NF29<467>
Total Heavy Metals	≤10μg/g	Complies	USP34-NF29<231>
Arsenic (As)	≤2μg/g	0.1μg/g	ICP-MS
Cadmium (Cd)	≤2μg/g	0.1μg/g	ICP-MS
Lead (Pb)	≤2μg/g	0.1μg/g	ICP-MS
Mercury (Hg)	≤0.5μg/g	ND	ICP-MS
Total Plate Count	≤1000cfu/g	80cfu/g	USP34-NF29<2021>
Molds and Yeasts	≤100cfu/g	30cfu/g	USP34-NF29<2021>
<i>Salmonella</i>	Absence	Complies	USP34-NF29<2022>
<i>E. Coli</i>	Absence	Complies	USP34-NF29<2022>
<i>Staphylococcus aureus</i>	Absence	Complies	USP34-NF29<2022>

Packing: 25kg/drum, Packing in paper-drums and two sealed plastic bags inside.

Storage: Store in a well-closed container away from moisture, direct light and heat.

Expired date: Re-test after two years from the manufacturing date.

Conclusion: Conform with Specification.

Quality Assurance Officer: 

Analyst: 

