EffePharm (Shanghai) Co., Ltd

Bld 4, No.1, Mid Wangdong Rd, Shanghai, China

EFFEPHARM

LipoAvail

Certificate of Analysis

Product and Batch Information			
Product Name	Liposomal Palmitoylethanolamide		
Batch No.	LPEA241001		
Ingredients	Palmitoylethanolamide, Sunflower Phospholipin		
Manufacture Date	Oct.29th,2024	**Expiry Date**	Oct.28th,2029
Country of Origin	P.R. China	**Reference**	In house
Item	**Specification**	**Result**	**Test Method**
Active Ingredient			
PEA	70.0%~75.0%	74.98%	HPLC
Physical Control			
Appearance	White to light yellow powder	Conforms	Visual
Moisture Content	NMT 5.0%	0.40%	Karl Fischer
Chemical Control			
Arsenic (As)	NMT 1ppm	Conforms	ICP-MS
Cadmium (Cd)	NMT 1ppm	Conforms	ICP-MS
Lead (Pb)	NMT 1ppm	Conforms	ICP-MS
Mercury (Hg)	NMT 0.5ppm	Conforms	ICP-MS
Microbiological Control			
Total Plate Count	NMT 1000cfu/g	Conforms	USP-NF 2022
Yeast & Mold	NMT 100cfu/g	Conforms	USP-NF 2022
E.Coli	Negative	Conforms	USP-NF 2022
Salmonella sp.	Negative	Conforms	USP-NF 2022
Staphylococcus Aureus	Negative	Conforms	USP-NF 2022
Packing and Storage			
Packing	Suitable for food industry		
Storage	Room temperature, sealed, heat, light, moisture-proof storage.		
Shelf Life	5 years if stored in accordance with recommendations		

Analyst: Sha Shu

Approver: Nor. Wang

EffePharm (Shanghai) Co., Ltd 质检专用章 Quality Control

	SA HERBAL BIOACTIVES LLP	
JK BOTANICALS SINCE 1875	**Certificate of Analysis** **Product Name: Boswellia serrata Dry Extract 90% AKBA By HPLC** **Botanical Name: Boswellia Serrata**	OVER 140 Years of Quality Trust

Product Code:	AKB	**Batch Number:**	AKB250701
Part Used:	Gum resin	**MFG Date:**	10/07/2025
HERB Ratio:	5:1	**EXP Date:**	09/06/2029
Analytical Code:	TR/25/07/5724	**Quantity:**	34.0

SR	Test Parameter	Reference	Specification	Result
1.0 Description				
1.01	Appearance	Organoleptic (SAH/SOP/QCD/OL/FG/00)	Fine powder	Fine powder
1.02	Taste	Organoleptic (SAH/SOP/QCD/OL/FG/00)	Characteristics	Characteristics
1.03	Odor	Organoleptic (SAH/SOP/QCD/OL/FG/00)	Characteristics	Characteristics
1.04	Colour	Visual	Off white to Cream color	Off white to Cream color
2.0 Analytical Data				
2.01	Identification	By HPLC	Presence of AKBA-Positive	Positive
2.02	Loss on drying (At 105oC)	IP 2014 (SAH/STP/QCD/LOD/01)	NMT 5.0%	0.35%
2.03	Total Ash	IP 2014 (SAH/STP/QCD/ASH/05)	NMT 10%	0.87%
2.04	Bulk Density	IP 2014 (SAH/STP/QCD/BDTD/06)	NLT 0.25 g/ml	0.44 gm/ml
2.05	Tapped Density	IP 2014 (SAH/STP/QCD/BDTD/06)	NLT 0.30 g/ml	0.57 gm/ml
2.06	Particle Size	Dry Seive Analysis (SAH/STP/QCD/PS/07)	NLT 95% Passing Through 40 mesh	100%
2.07	pH (1% solution) w/v	IP 2024 (SAH/STP/QCD/PH/02)	4.0-7.0	6.29
3.0 % Assay (On dried basis)				
3.01	AKBA (Boswellic Acid) By HPLC	In House Method	NLT 90.0%	93.88%
4.0 Heavy Metals				
4.01	Lead	ICP-MS (By NABL approved external laboratory)	NMT 2.0 ppm	Complies
4.02	Arsenic	ICP-MS (By NABL approved external laboratory)	NMT 1.1 ppm	Complies
4.03	Cadmium	ICP-MS (By NABL approved external laboratory)	NMT 0.3 ppm	Complies
4.04	Mercury	ICP-MS (By NABL approved external laboratory)	NMT 0.1 ppm	Complies
5.0 Microbiological Enumeration				
5.01	Total Plate Count	USP <2021> (SAH/SOP/QCD/MIC/MLTTPC/11)	NMT 1000 cfu/gm	<10 cfu/gm
5.02	Yeast/Moulds/Fungi	USP <2021> (SAH/MOA/QCD/MIC/TPC/36)	NMT 100 cfu/gm	<10 cfu/gm
5.03	Escherichia coli	USP <2022> (SAH/MOA/QCD/MIC/EC/38)	Absent/gm	Absent

	Prepared By	Checked By	Approved By
Name	Ram Prajapati	Sheela Vishwkarma	Bhorik yadav
Designation	Senior QC Executive	Assistant Manager - QC	QC Manager
Signature			

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