

ASES CHEMICAL WORKS

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CERTIFICATE OF ANALYSIS

1. Name of the Product	Kojic Acid Dipalmitate
2. INCI Name	Kojic Acid Dipalmitate
3. CAS Number	79725-98-7
4. Formula	$C_{38}H_{66}O_6$
5. Mol. Weight	618 g/mol
6. Batch No & Mfg. Date	As mentioned on Label
7. Date Of Exp	3 Years From MFG Date
8. Date of Analysis	June-2024

SN	Test	Specification	Result
1	Appearance	White or off-white crystalline powder, odourless, hygroscopic	Complies
2	Solubility	Freely soluble in hot alcohol, tetrahydrofuran, water insoluble	Complies
3	Melting Point	93-97°C	96°C
4	Loss on drying	NMT 0.5%	0.11%
5	Free Kojic Acid and Palmitic Acid	1) Palmitic Acid : NMT 0.1% 2) Kojic Acid : NMT 0.1%	Nil 0.01%
6	Residual Solvent	NMT 5000ppm	Complies
7	pH	6.5 to 8	Complies
8	Heavy Metal	NMT 0.002%	Nil
9	Sulfate ash	NMT 0.002%	Nil
10	Identification a. By IR b. By HPLC	The transmission minima (absorption maxima) in the spectrum obtained with substance to be examined correspond in position and relative size to those in the spectrum obtained with the Kojic acid dipalmitate working standard.	Complies
		The retention time of the major peak in the chromatogram of the sample preparation corresponds in that of the peak due to Kojic acid dipalmitate in the chromatogram of the standard preparation, as obtained in Assay.	Complies
11	Assay	98.0 – 102.0%	99.84%