

CERTIFICATE OF ANALYSIS

Product name	all-trans Retinal (cosmetic grade)	Batch No.	ATR20240101
Manuf. Date	2024-1-11	Expiry Date	2027-1-10
Batch Quantity	85kg	Test Standard	Factory standard
CAS No. :	116-31-4	Test date	2024-1-13

TEST	SPECIFICATIONS	RESULTS
Description	Yellowish powder	Complies
Odor	characteristic odor	Complies
Loss on drying	$\leq 0.5\%$	0.25%
Residue on ignition	$\leq 0.1\%$	0.05%
Pb	$\leq 3\text{ppm}$	Complies
As	$\leq 1\text{ppm}$	Complies
Hg	$\leq 0.1\text{ppm}$	Complies
Cd	$\leq 1\text{ppm}$	Complies
Residue solvents	Meet Eur.Ph.7.0<5.4>	Complies
Total plate count	$\leq 1,000\text{cfu/g}$	Complies
Yeast & mold	$\leq 100\text{cfu/g}$	Complies
Coliforms	0.92MPN/g	Not detected
E.coil	Absent/10g	Not detected
SALMONELLA	Absent/25g	Not detected
Staphylococcus	Absent/10g	Not detected
Effective constituent	98.0% min	98.22%

Conclusion: The product complies with the requirements of Factory standard

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