



CERTIFICATE OF ANALYSIS (COA)

Product Name: Retinaldehyde (Retinal)

INCI Name: Retinal

CAS No.: 116-31-4

Molecular Formula: C₂₀H₂₈O

Batch No.: 19825-12-09

Manufacturing Date: 19-Dec-2025

Retest Date: 18-Dec-2027

Grade: Cosmetic

Analytical Specifications & Results

Parameter	Specification	Method	Result
Appearance	Yellow to orange crystalline powder	Visual	Conforms
Odor	Characteristic	Organoleptic	Conforms
Identification	Matches reference standard	HPLC / UV	Pass
Assay (Purity)	≥ 98.0%	HPLC	99.2%
Loss on Drying	≤ 0.5%	USP <731>	0.21%
Residual Solvents	≤ ICH limits	GC	Complies
Heavy Metals	≤ 10 ppm	ICP-MS	< 5 ppm
Arsenic	≤ 2 ppm	ICP-MS	< 1 ppm
Lead	≤ 2 ppm	ICP-MS	< 1 ppm
Microbial Count (TAMC)	≤ 100 CFU/g	USP <61>	< 10 CFU/g
Yeast & Mold	≤ 10 CFU/g	USP <61>	< 5 CFU/g
E. coli	Absent	USP <62>	Not detected
Melting Point	61–64°C	Pharmacopeia	62.3°C

Dr. Veronica Lucchini

QC Manager