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Certificate of Analysis

PRODUCT	ALL-TRANS-RETINAL		
CAS #	116-31-4	Batch No.	20211110
M.F.	C ₂₀ H ₂₈ O	MFG date	Nov 10, 2021
M.W.	284.44 g/mol	Test date	Nov 11, 2021
Grade	Cosmetic ingredient	Expiration date	Nov 09, 2023
Storage	-20°C, under inner atmosphere		

TEST	SPECIFICATION	RESULTS
Appearance	Yellow powder or saffron yellow powder	Saffron yellow powder
Assay (HPLC)	98%min	98.5%
MP.	61-63°C	61-63°C
Storage temp.	-20°C	-20°C
Moisture	< 0.5%	0.15%
¹ H NMR	Consistent	Consistent

METAPHARMACEUTICAL

N DE LOTE:

0040122


11/01/2022

Approved by
Quality System Manager

Signature Zhenhua Song