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Lot: 0030820

Certificate of Analysis

PRODUCT	ALL-TRANS-RETINAL		
CAS #	116-31-4	Batch No.	20200620
M.F.	C ₂₀ H ₂₈ O	MFG date	June 20, 2020
M.W.	284.44 g/mol	Test date	June 20, 2020
Grade	Cosmetic ingredient	Expiration date	June 19, 2022
Storage	-20°C, under inner atmosphere		

TEST	SPECIFICATION	RESULTS
Appearance	Yellow powder or saffron yellow powder	Saffron yellow powder
Assay (HPLC)	98%min	98.7%
MP.	61-63°C	62-63°C
Storage temp.	-20°C	-20°C
Moisture	< 0.5%	0.2%
¹ H NMR	Consistent	Consistent

Approved by
Quality System Manager

Signature Zhenhua Song