

# ASES CHEMICAL WORKS

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## CERTIFICATE OF ANALYSIS

1. Name of the Product	Vitamin A Acetate Powder /Retinol Acetate
2. CAS Number	127-47-9
3. Formula	$C_{22}H_{32}O_2$
4. Mol. Weight	112.128
5. Batch No & Mfg. Date	As mentioned on Label
6. Date Of Exp	3 Years From MFG Date
7. Date of Analysis	Sept - 2024

SN	TEST	SPECIFICATION	RESULTS
1	Description	Light yellow free flowing sandy powder , faint odour.	Complies
2	Identification A,B,C,D&E		
3	A. For Vitamin A Acetate (By UV )	The sample solution shows maxima at about 325 to 327 nm.	Complies
4	B. For BHA (By TLC)	The spot obtained by sample and comparison solution should have same Rf value and colour.	Complies
5	C. For BHT (By TLC)	The spot obtained by sample and comparison solution should have same Rf value and colour.	Complies
6	D. For Vitamin A Acetate (By TLC)	The principal spots in chromatogram obtained with test solution correspond to one or more of the spots in chromatogram obtained with reference solution (a).	Complies
7	E. For Vitamin A (By spot test )	A transient bright blue colour is produced immediately.	Complies
8	Solubility	Practically insoluble in water, in warm water it swells to form an emulsion.	Complies
9	Loss on drying	Not more than 5.0 %	3.10%
10	Related substances and degradation products	The ratio of A300/A325 is not greater than 0.612 & the sum of A300/A325 & A350/A325 is not greater than 1.054.	Complies
11	Content of Vitamin A	475,000.0 to 575,000.0 iu/g	504,925.7 iu/g
12	% LA of Vitamin A	95.0 to 115.5%	101.00%
13	Powder fineness A,B,C		
14	A. Through 20 #	Not less than 100.0 %	100.00%
15	B. Through 40 #	Not less than 60.0 %	94.20%
16	C. Through 100 #	Not more than 10.0 %	2.60%
17	Microbiological Test A to E		
18	A. Total bacterial count	Not more than 1,000 cfu/g	30 cfu/g
19	B. Total Yeast /Mould	Not more than 100 cfu/g	<10 cfu/g
20	C. Coliform bacteria	Not more than 10 cfu/g	<10 cfu/g
21	D. E.coli	To be Absent per 1 gm	Absent
22	E. Salmonella spp.	To be Absent per 25 gm	Absent