



杭州华飞化工有限公司

AFINE CHEMICALS LIMITED

CERTIFICATE OF ANALYSIS

Product Name	60.0% Vitamin K2 Powder (All trans)	CAS No.	2124-57-4
Batch No.	2411002	MFG. Date	2024.11.02
Excipient	Maltodextrin	EXP. Date	2026.11.01
Standard	USP and In-house		
Storage Conditions	Preserve in airtight containers, protected from light and store at cool and dry place.		
TEST	SPECIFICATION	RESULTS	
Appearance	Off white to yellow powder	Complies	
Identification	HPLC: The principal peak in the chromatogram obtained with the test solution is similar in retention time to that of reference solution.	Complies	
	TLC : Under visible light and short-wavelength UV light, the spots from the Sample solution correspond in color (light yellow), shape, and Rf value to those from the Standard solution. After applying the Spray reagent, the spots from the Sample solution, under white light, correspond in color (dark blue), shape, and Rf value to those from the Standard solution	Complies	
Composition	Menaquinone-7 ≥ 600000 ppm	618002 ppm	
Isomeric Impurity	Cis-menaquinone-7 $\leq 2.0\%$	Not Detected	
Impurity	Menaquinone-6 ≤ 60000 ppm	24560 ppm	

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Loss on drying	≤5.0%	3.2%
Heavy Metal	As ≤2.0μg/g	Complies
	Cd ≤1.0μg/g	Complies
	Hg ≤0.1μg/g	Complies
	Pb ≤3.0μg/g	Complies
Microbial limits	Total Bacteria count : ≤1000cfu/g	Complies
	Total Yeasts and molds count : ≤100cfu/g	Complies
	E.Coli: Absent	Not Detected
	Salmonella: Absent	Not Detected
	Staphylococcus aureus: Absent	Not Detected
Conclusion	It conforms to the specifications.	

Approved by: Zeng Ling Reviewed by: Xiang Bo Analyzed by: Zhang Li

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