

ANHUI WAN HE PHARMACEUTICAL CO.,LTD

Yangcun Industry Park, Tianchang City, Anhui Province, China Tell:86-21-53081360 Fax:86-21-53081260

CERTIFICATE OF ANALYSIS

Product Name	VITAMIN K1	Code Name	C004
Specification	Bulk drug(Injection)	Batch Quanlity	101.0KGS
Batch NO.	V191104	Package	Aluminum Tin
MFG. Date	NOV.15,2019	EXP.Date	NOV.14,2021

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Items		Standard of EP9.2		Result of Test		
Appearance of solution		The solution is clear		Conform		
Refractive index		About 1.526		1.526		
	,	A	Examined between 275-340nm,test solution shows an absorption max at 327nm which the specific absorbance is 67-73 and min at 285nm.Between 230-280nm Test solution also shows four absorbance max, at 243,249,261 and 270 nm respectively		Conform	
indentification	E	В	The principal peak in the chromatogram obtained with the test solution is similar in retention time and size to principal peak in the cheomatogram obtained with reference solution(d)			conform
		С	A green colour is produced which becomes violet-red on heating and then reddish-brown on standing		Conform	
Related substances	Eluting before trans-epoxyphytome nadione		Single impurity ≤0.15%		0.02%	
			Total impurities ≤0.2%		0.15%	
	Eluting between cis-phytomenadione and trans-phytomenadio ne		Single impurity≤0.4%		0.18%	
			Total impurities ≤0.5%		0.23%	
	Eluting after	Single impurity ≤0.25%		0.13%		
	trans-phytomenadio ne		Total impurities≤0.5%		0.39%	
	Total		≤1.2%		0.77%	
	Reporting threshold		≤0.05%		Conform	
Acid value		≤2.0		1.2		
Sulphated ash		≤0.1%		0.02%		
Impurity A (TLC)		≤0.2%		Conform		
Total Plate Count		<250cfu/g		Complies		
Yeast & Mold		<50cfu/g		Complies		
Coliforms		<3cfu/g		Absent		



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E.Coli		<10cfu/g	Absent	
Staphyllococus aureus		< 10 cfu/g	Complies	
Lead		<3ppm	<3ppm	
Cadmium		<1ppm	<1ppm	
Mercury		<0.1ppm	<0.1ppm	
Arsenic		<1ppm	<1ppm	
Methanol		Less than 0.3%	NF	
Ether		Less than 0.5%	0.02%	
Absolute Alcohol		Less than 0.5%	0.05%	
Assay	Trans-epoxyphytomenadione	≤4.0%	0.6%	
	Trans-phytomenadione	≥75.0%	82.86%	
	Total three compound	97.0%103.0%	98.22%	
Conclusion		The product comply with EP9.2		

Principle: Kai Guo Re-check:Lili Liu

Analyst:Yunyun Chen

Country of Origin:China

Storage condition: keep away from light, store in cool and dry place.

Packing condition: inner packing:100g/tin;1kg/tin;5kg/tin. Out-packing:carton/