

## 西安康诺化工有限公司 Kono Chem Co., Ltd

## **Certificate of Analysis**

Product name	Umifenovir Hydrochloride	Mfg. Date	2021.05.09
Batch No:	KN2210509	Test date	2021.05.11
Batch quantity	800kg	Expiry date	2023. 05.08

Items	Specifications	Results		
Appearance	White or almost white powder	Almost white powder		
Absorption factor	Should be 385-409	399		
Identification				
1	Should produce orange red precipitate	Complies		
2	In the chromatogram of content determination, the retention time of the main peak of the sample solution should be consistent with that of the standard solution.	Complies		
3	The infrared absorption spectra should be consistent with the standard samples.	Complies		
4	The identification reaction of filtrate should be chloride.	Complies		
Tests				
Clarify and color of ethanol solution	Solution clarity should be less than No.1 turbidity standard solution.	Complies		
	The color should be lighter than No.3 yellow green or No.3 brown red standard color solution.	Complies		
Ph	4.0 - 6.0	4.3		
Burning residue	≤ 0.2%	0.1%		
Water	3.0% - 4.0%	3.4%		
Heavy metals	≤ 10 ppm	< 10 ppm		
Residual solvents	Ethanol ≤ 0.5%	0.02%		
	Acetone ≤ 0.5%	0.01%		
Related substances	Single impurity $\leq 0.5\%$	0.2%		
	Total impurity $\leq 1.0\%$	0.6%		
Microorganism	Total number of aerobic bacteria ≤ 1000 cfu/g	20 cfu/g		
	Total number of mucedines and yeasts ≤ 100 cfu/g	< 10 cfu/g		
Assay	No less than 98.0% and no more than 102.0% on anti-deput. 100.3% Calculate as $C_{22}H_{25}B_RN_2O_3S$ ·HCI			
Conclusion: Complies with the Second enlarged edition of Chinese Pharmacopoeia 2010				

Analyzed by: Xu Ke

Checked by: Yang Jinbo

Add: No.2,Daxing East Road,Xi'an,China Tel: 86-29-86107037 Web: www.konochemical.com Email: <u>info@konochemical.com</u>

内ssiled by Wang Jie