CERTIFICATE OF ANALYSIS

PRODUCT	Gemcitabine HCI	CAS No.	122111-03-9	
BATCH No.	20170404	EXP.DATE	2019.04.13	
PROD.DATE	2017.04.14	QUANTITY	8.0 Kgs	
TEST	STANDARD	RE	SULT	
Description	White or almost white powder		Complies	
Solubility Soluble in water, slightly soluble in methanol,		methanol, Co	Complies	
practically insoluble in acetone				
Identification				
A Infrared absorption spectrophotometry (2.2.24) Complies			mplies	
comparision Gemcitabine Hydrochloride CRS				
B Itg	ives reaction (a) of chloride (2.3.1) Com		omplies	
Tests				
Appearance ofSolution S in clear(2.2.1) and not more intenselyComplies				
Solution colored than reference solution BY ₇ (2.2.2, method II)				
PH	2.0~3.0 (2.2.3)	2	2.6	
Specific optical Rotation $+43 \sim +50^{\circ} (2.2.7)$ $+49$		49.0°		
Related substances (2.2.29)				
Impurity A≦0.1%			0.003%	
Impurity B≦0.1%		N	ot detected	
Unspecified impurities \leq 0.10%		0% (0.03%	
Total ≦0.2%			0.04%	
Heavy metals	≤10ppm (2.4.8)	С	omplies	
Sulphated ash	≤0.1% (2.4.14)	(0.01%	
Residual solvents(2.4.24)				
Toluene≤0.01%		Not d	etected	
Dichloromethane≤0.01%		Not d	etected	
	Methanol ≤0.3%		etected	
	Acetone ≤0.5%	0.2%		
Bacterial endotoxins <0.05 eu/mg (2.6.14)		C	omplies	
Assay	97.5~101.5% (2.2.29)	99	9.3%	
Conclusion: The results comply with the requirements of Ph. Eur. EP8.0				