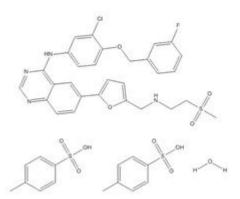
## **Certificate of Analysis**

## Lapatinib ditosylate



Batch No: 20180111		Quantity:35kg		
Manufacture Date: Jan,11,2018		CAS 388082-78-8		
Expiration date : Jan,10. 2020				
Items	Specifications		Results	
Appearance	Yellow crystal powder		Yellow crystal powder	
H-NMR	Conform with standard		Conform	
Water (%)	1.	7-2.5%	1.74%	

Residue on ignition	≤ 0.5	0.04%
Related substances	Impurity 1 ≤0.1%	< 0.01%
	Impurity 2 ≤0.1%	0.02%
	Impurity3≤0.1%	ND
	Impurity 4 ≤0.1%	ND
	Impurity 5 ≤0.1%	0.01%
	Impurity 6 ≤0.1%	ND
	Impurity 7≤0.1%	< 0.01%
	Impurity 8 ≤0.1%	0.01%
	Impurity9 ≤0.1%	0.04%
	Impurity 10 ≤0.1%	0.01%
	Impurity 11 ≤0.1%	ND
	Impurity 12 ≤0.1%	0.10%
	Impurity 13 ≤3ppm	ND
	Impurity 14≤0.1%	< 0.01%
	Impurity 15 ≤0.1%	0.05%
Pd	≤10ppm	0.3ppm
Residual Solvents	Methanol ≤ 0.3%	ND
	Ethanol≤0.5%	ND
	Ethyl acetate≤0.072%	ND
	Furanidine≤0.088%	ND
	N,N-dimethylformamide≤0.1%	ND
	DIPEA≤0.1%	0.0082%
Related Impurity by HPLC	Total impurity ≤1.0%	0.22%
•	Single impurity ≤0.1%	0.06%
Purity (HPLC)	≥99.0%	99.78%

Conclusion: the above substance has been tested according to In house Standards , and it meets requirements .