

## HAIQIANG CHEMICALS CO., LTD

PHONE: 86-571-86465881, FAX: 86-571-86414728 sales@haiqiangchem.com

## CERTIFICATE OF ANALYSIS

NO: HOC081309294

Product name	Piperacillin, CP2010
CAS Number	61477-96-1
Molecule Structure	
Molecule Formula	C23H27N507S
Batch number	20130709
Manuf.&Exp. Date	2013-07-09, 2015-03-06
Testing date	2013-07-09

Items	Standard	Result
Appearance	White or almost white crystalline powder	Confirm
Identification	The infrared absorption spectrum of the	Confirm
	sample spectrum exhibits maxima at the	
	same wavelengths as that of a know	
	standard of piperacilin monohydrate	
PH	2. 5-4. 0	3. 4
Specific optical rotation	+160° ~+178°	+173°
Color	Y2 max	Confirm
Appearance of solution	1# max	Confirm
Water	2. 0-4. 0%	3. 6%
Ampicillin	0.2% max	0. 01%
Impurities	Impurity A: 1.0% max	0. 14%
	Impurity B:0.2% max	0.01%
	Impurity C: 0.4% max	0.01%
	Impurity D: 2.0% max	0. 44%
	Other maximum single impurity:0.1% max	0. 02%
	Total impurity: 3.8% max	0. 63%
Bacterial endotoxins	0.05EU/mg max	Confirm
Assay(on dry base)	96-103%	98. 5%
Conclusion	The above result complies with CP 2010 standard.	



Add: RM1605,ZhongDa Plaza,Building 1,NO.366, Zhongshan North Road,Hangzhou,China.