


CERTIFICATE OF ANALYSIS

NODYC011410101

Product name	Piperazine-1,4-bisethanesulfonic acid, PIPES
CAS Number	5625-37-6
Molecule Structure	
Molecule Formula	C8H18N2O6S2
Batch number	20141010
Manufacture Date	2014-10-10
Testing date	2014-10-10

Items	Standard	Result
Appearance	Free flowing white powder	Complies
Assay (potentiometric calibration on dry substance)	Min 99%	99.5%
PKa at 20°C	6.7-6.9	6.77
Res. Aftr Ign. %	≤0.3	0.09
Insolubles Matter %	≤0.005	0.03
Heavy metals (Pb)	≤5ppm	3ppm

Hangzhou Dingyan Chem Co., Ltd.
 Benu Sanz
 QUALITY CONTROL:  CHECK: 姚仙娟 INSPECTOR: 刘清风