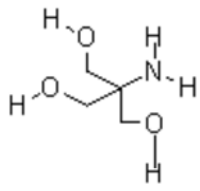


CERTIFICATE OF ANALYSIS

NO: DYC011406252

Product name	Tris(hydroxymethyl)aminomethane
CAS Number	77-86-1
Molecule Structure	
Molecule Formula	C4H11NO3
Batch number	13120101
Manufacture Date	2013-12-01
Testing date	2013-12-01

Items	Standard	Result
Appearance	White crystal	White crystal
Assay	99.50%-101.0%	99.78%
Melting point	168° C-171° C	168.9° C-171.6° C
Insolubles	0.03% max	0.0042%
ASH	0.05% max	0.0045%
Heavy metals	5ppm max	2ppm
Loss on drying	0.2% max	0.19%
PH	10.0-10.8	10.96
Color	5#	5#
Fe	1ppm max	2ppm
S042+	10ppm max	3ppm
Cl	3ppm max	2ppm
Abs (260nm, 20%water)	0.1 max	0.072

Hangzhou Dingyan Chem Co., Ltd.
 QUALITY CONTROL: *Benlu Song*
Signature(s)

CHECK: 姚仙娟

INSPECTOR: 刘清风