

**HANGZHOU DINGYAN CHEM CO.,LTD**

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CERTIFICATE OF ANALYSIS**NO: DYC091504051**

Product name	Hydroxypropyl methyl cellulose phthalate
CAS Number	9050-31-1
Molecule Structure	<p>R = H, CH₃ or $[-CH_2-CH_2-O-]_x$ H or $[-CH_2-CH_2-O-]_x$ HO-C(=O)-C₆H₄-C(=O)-</p>
Molecule Formula	C14H16N4
Batch number	20150405
Manuf. Date:	2015-04-05
Testing Date:	2015-04-05

Items	Standard	Result
Appearance	White or off-white powder, no visible evidence of contamination by foreign matter	Conforms
Identification	Conform	Conforms
Viscosity	32.0—48.0 cp.s	44.0 cp.s
Residue on ignition	Not More Than 0.2%	0.1 %
Chloride	Not More Than 0.07%	Conforms
Arsenic	Not More Than 0.0002%	Conforms
Heavy Metal	Not More Than 0.001%	Conforms
Free phthalic acid	Not More Than 1.0%	0.7 %
Water	Not More Than 5.0%	2.79 %
Organic Volatile Impurities	Meets the requirements	Conforms
Phthalyl content	21.0% to 35.0%	30.2 %
Methoxy content	18.0% to 22.0%	19.2 %
Hydroxypropyl content	5.0% to 9.0%	5.5 %
Bioburden		
Total Microbial Count	1000CFU/gram max	Conforms
Total Mold and Yeast	100CFU/gram max	Conforms
Escherichia Coli	Negative	Not Detect

Hangzhou Dingyan Chem Co.,Ltd.
 Quality Control
 QUALITY CONTROL: *Park* CHECK:姚仙娟 INSPECTOR: 刘清风