N&R INDUSTRIES, INC

CERTIFCATE OF ANALYSIS

Commodity	Clopidogrel Bisulfate Form 1		
Quantity	50kgs	**Batch No**	20120502
Production Date	May 03, 2012	**Expiry Date**	Jun 02, 2014
Analysis Standard	USP30 Standard		

Item	Standard	Results
Appearance	White or off-crystalline powder	Off-crystalline powder
Identification	A.IR -Corresponding reference spectrum	Corresponding reference spectrum
	B.HPLC-Retention time of the sample conforms to that of the reference standard	Retention time of the sample conforms to that of the reference standard
	C.Test for sulfate-Positive	Positive
Loss on drying	≤0.5%	0.17%
Residue on ignition	≤0.1%	0.08%
Related compounds	Compound A ≤0.2%	0.08%
	First enantiomer compound B ≤0.3%	≤QL(0.05%)
	compound C ≤1.0%	0.23%
	Unidentified impurity ≤0.1%	RRT0.37 0.07%
	Total impurities ≤1.5%	0.38%
Assay	97.0~101.5%	99.9%
Residual solvents	Ethyl acetate ≤5000ppm	218ppm
	Acetone ≤5000ppm	73ppm
Conclusion：	Conforms with USP 30 standard	
Storage conditions	Store in a tight container, protected from light, at controlled room temperature(15~30℃)	

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