



N&R INDUSTRIES, INC

CERTIFICATE OF ANALYSIS

Product name	1,2,3,4,6-Penta-O-acetyl-a-D-glucopyranose		
CAS No	604-68-2		
Batch Size	1000kgs	Batch Number	20120528
Manufacture Date	May28, 2012	Expiry Date	May 27, 2014

Items	Standards	Results
Appearance	White powder	White powder
Pentacetylglucose	99%MIN	99.3%
Melting point	111~114°C	111-113°C
Clarity of chloroform solution	Transpency, colorless, none suspended matters	Pass
Heavy metals	≤20ppm	Pass
Arsenic	≤3ppm	Pass
Specific optical rotation	+100~ +103	+102
Loss on drying	≤0.5%	0.15%
Ignition residue	≤0.1%	Pass

Conclusion: Passed test according to the above standard



QC: Niu Lanlan