

# Certificate of Analysis

**Product** : 0.2  $\mu\text{mol}$  dG<sup>iBu</sup> 1000 Å CPG DNA Synthesis Column  
**Part No.** : 400951  
**Lot No.** : 1203063  
**Release Date** : 25 Apr 2012  
**Expiration** : One Year From Date of Shipment

## Physical Inspection

To verify conformity of automated column assembly to our manufacturing standards, samples of the finished columns are visually inspected to verify corrected column assembly and labeling.

Result: PASS

## Appearance

Specification: Each bulk lot of CPG is confirmed to be a white to off-white, free flowing powder, free of foreign particulates.  
Result: OFF-WHITE

## Identity

Samples of the nucleoside-loaded support are treated to cleave the nucleoside from the support. The nucleoside is then analyzed by RP-HPLC to verify the identity.

Specification: The nucleoside is analyzed by RP-HPLC and verified against a reference standard.  
Result: PASS

## Nucleoside Loading

Each bulk lot of support is tested to determine the extent of nucleoside loading.

Specification: 14.0 to 26.0  $\mu\text{mol/g}$   
Result: 19.8  $\mu\text{mol/g}$

## DNA Synthesis Use Test

Each bulk lot of loaded support is tested for its ability to adequately support DNA synthesis. The coupling efficiency is based on the synthesis of a proprietary oligonucleotide sequence.

Specification:  $\geq 98.0\%$   
Result: 98.0%

Approved by: *SC Hong*  
*Quality Assurance Manager*



Notice: For Research Use Only. Not for use in diagnostic procedures.