

# Certificate of Analysis

**Product** : LV40<sup>®</sup> dC<sup>Bz</sup> Polystyrene DNA Synthesis Column  
**Part No.** : 401743  
**Lot No.** : 1204182  
**Release Date** : 21 May 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 polystyrene is confirmed to be a white to off-white, free flowing powder, free of foreign particulates.

Result: 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: 7.0 to 11.0  $\mu\text{mol/g}$

Result: 9.5  $\mu\text{mol/g}$

## 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: 99.3%

Approved by:

SC Hong

Quality Assurance Manager

**AB** Applied  
Biosystems  
an Applied Biosystems Corporation Business

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

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