

Clontech® PCR-Select™ Bacterial Genome Subtraction Kit

Catalog No.
637404

Amount
7 rxns

Lot Number
Specified on product label.

Description

Complete kit for comparing two bacterial genomes (from two different species of bacteria or two different strains of the same species) and obtaining DNA fragments that are present in one genome but not in the other. Enough reagents are provided for one control and six complete subtractions.

Package Contents

- 300 µl 10X Rsa I Restriction Buffer
- 12 µl Rsa I (10 units/µl)
- 21 µl T4 DNA Ligase (400 units/µl)
- 30 µl Adaptor 1 (10 µM)
- 30 µl Adaptor 2R (10 µM)
- 200 µl 5X DNA Ligation Buffer
- 1.4 ml Dilution Buffer
- 200 µl 4X Hybridization Buffer
- 50 µl PCR Primer 1 (10 µM)
- 100 µl Nested Primer 1 (10 µM)
- 100 µl Nested Primer 2R (10 µM)
- 10 µl PCR Control Subtracted Genomic DNA
- 5 µl *E. coli* Genomic DNA (1 mg/ml)
- 10 µl Control DNA (3 ng/µl)
- 50 µl 23S RNA Forward Primer (10 µM)
- 50 µl 23S RNA Reverse Primer (10 µM)

Storage Conditions

- Store all components at -20°C

Shelf Life

- 1 year from date of receipt under proper storage conditions.

Shipping Conditions

- Dry ice (-70°C)

Product Documents

Documents for Clontech® products are available for download at www.clontech.com/manuals

The following documents apply to this product:

- Clontech PCR-Select Bacterial Genome Subtraction Kit User Manual (PT3170-1)

Clontech Laboratories, Inc.

A Takara Bio Company

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Quality Control Data

A sample kit was tested to ensure the quality and performance of this lot. 360 ng of the *E. coli* genomic DNA was mixed with 0.36 ng of Hae III-digested ϕ X174 DNA. The subtraction procedure was performed according to the User Manual using this mixture as tester DNA and *E. coli* Genomic DNA alone as driver. Adaptors 1 and 2R were ligated to the tester DNA, and two consecutive hybridizations were performed with tester and driver DNAs. The Advantage® 2 PCR Kit (Cat. No. 639206) was used for PCR. Primary PCR was performed using PCR Primer 1; secondary PCR was performed using Nested Primers 1 and 2R. The reaction products were examined by electrophoresis on a 2% agarose/EtBr gel. The resulting bands corresponded to the Hae III-digested ϕ X174 DNA fragments only.

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