

SMARTer® cDNA Synthesis Kit Components 1

Catalog No.

634943

Amount

Each

Lot Number

Specified on product label.

Description

These components are included in the SMARTer cDNA Synthesis Kit (Cat. No. 634942), a kit for performing cDNA syntheses from nanogram amounts of total or poly A⁺ RNA.

Package Contents

Box 1:

- 22 x 220 µl SMARTer II A Oligonucleotide (12 µM)

Box 2:

- 1 x 12.5 ml 5X First-Strand Buffer (RNase-Free)
- 1 x 3.5 ml dNTP Mix (10 mM of each dNTP)
- 8 x 1 ml DTT (20 mM)
- 2 x 60 ml Deionized Water
- 1 x 2.2 ml SMARTScribe™ Reverse Transcriptase (100 U/µl)
- 2 x 2.5 ml RNase Inhibitor (40 U/µl)

Storage Conditions

- Store Box 1 at -70°C.
- Store Box 2 at -20°C.

Shelf Life

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

Shipping Conditions

- Dry ice (-70°C)

Quality Control Data

This kit was tested using the components of the SMARTer PCR cDNA Synthesis Kit (Cat. No. 634926) as follows: 1 µl (2 ng) of the Control Mouse Liver Total RNA was subjected to first-strand cDNA synthesis. 40 µl of TE buffer was added to the first-strand reaction product, and 10 µl of the diluted first-strand reaction product was used for PCR. A range of PCR cycles (18, 21, 24, and 27) was performed. 5 µl of the PCR product was electrophoresed on a 1.2% agarose/EtBr gel. A moderately strong smear from 0.5–5 kb was observed.

It is certified that this product meets the above specifications, as reviewed and approved by the Quality Department.

Takara Bio USA, Inc.

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