

SMARTer® cDNA Synthesis Kit Components 1

Catalog No.	Amount	Lot Number
634943	Each	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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Our products are to be used for research purposes only. They may not be used for any other purpose, including, but not limited to, use in drugs, in vitro diagnostic purposes, therapeutics, or in humans. Our products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products or to provide a service to third parties without prior written approval of Takara Bio USA, Inc.

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