FIREScript® RT cDNA synthesis MIX

Convenient cDNA synthesis mix with fast and robust FIREScript® Reverse Transcriptase

Genetically modified MMLV-based reverse transcriptase with increased thermostability and improved performance at elevated temperatures

high specificity and yield

wide reaction temperature from 37°C to 60°C

fast 15 min reaction time

a convenient 3-vial kit with all reaction components

RNase inhibitor and water included

reaction set-up and shipment without ice

Ordering

Some applications of this product may require a license which is not provided by the purchase of this product.

For research use only.

Choose Product Size

100 rxn | 100 x 20 µl rxn

500 rxn | 500 x 20 µl rxn

20 rxn | 20 x 20 µl rxn **free sample**

REQUEST FOR BULK SIZE

Reagents Provided

Item	Pcs.	Vial size
FIREScript® Enzyme mix	1	100 rxn | 150 µl
10x RT Reaction Premix with oligo (dT) primer	1	250 µl
Water, nuclease free	2	1.25 ml

Description

FIREScript® Reverse Transcriptase (RT) is a genetically engineered MMLV (Moloney Murine Leukemia Virus) based Reverse Transcriptase.

This is an RNA-directed DNA polymerase that can synthesize a complementary DNA strand from ssRNA or ssDNA and is active over a broad range of reaction temperatures from 37°C to 60°C.

FIREScript® RT is a robust enzyme for RNA detection and has enhanced stability at room temperature with no activity loss for up to 1 month. This RT contains a functional RNase H domain which can increase the sensitivity of RT-qPCR (quantitative reverse transcription PCR).

Applications

First-strand cDNA synthesis

RT-PCR

RT-qPCR

Properties

Sample type: RNA

Final product: cDNA (first strand)

Product format: Enzyme mix with all reagents included

Enzyme: FIREScript® Reverse Transcriptase

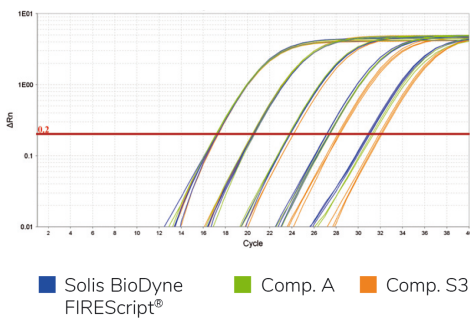
Source: Purified from an *E.coli* strain that carries an overproducing plasmid containing a FIREScript® Reverse Transcriptase gene.

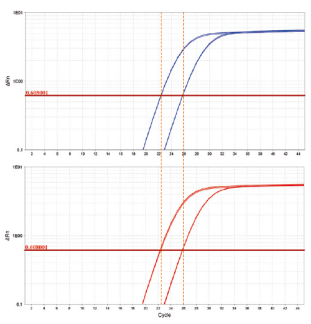
Unit description: One unit is defined as the amount of enzyme that will incorporate 1 nmol of dTTP into acid-precipitable material in 10 minutes at 37°C using poly(rA)•oligo(dT) as template in a total reaction volume of 50 µl.

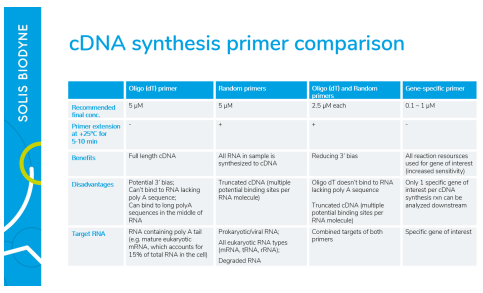
Storage and dilution buffer: 50% glycerol (v/v), 20 mM Tris-HCl pH 7.5 at 25°C, 100 mM KCl, 0.1 mM EDTA and stabilizers.

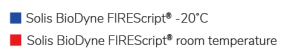
Reagents

- **FIREScript® Enzyme Mix** (FIREScript® RT and RiboGrip RNase inhibitor)
- **10x RT Reaction Premix with Oligo (dT) primer** RT reaction buffer with DTT, dNTPs and Oligo (dT) primers
- **Water,** nuclease free









cDNA synthesis priming options

Highly competitive enzyme

Exceptional stability

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