

Data Sheet

SOLIScript® RT cDNA synthesis MIX

Cat. No.	20 µl Reactions
06-37-0000S	20 rxn SAMPLE
06-37-00100	100
06-37-00500	500

For *in vitro* use only.

Description:

SOLIScript® Reverse Transcriptase (RT) is an *in silico* designed chimeric RNA-directed DNA polymerase. **SOLIScript® RT** can synthesize a complementary DNA strand from ssRNA or ssDNA and is active at higher temperatures (up to 60°C). **SOLIScript® 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 RNase H domain with reduced activity.

Source:

Purified from an *E. coli* strain that carries an overproducing plasmid containing a *SOLIScript Reverse Transcriptase* gene.

Applications:

- First strand cDNA synthesis
- RT-PCR
- RT-qPCR

Reagents Provided:

- **SOLIScript® Enzyme Mix**
SOLIScript® RT and RiboGrip RNase Inhibitor
- **10x RT Reaction Premix without primers**
RT reaction buffer with DTT and dNTPs
- **Water, nuclease free**

SOLIScript® Storage and Dilution buffer:

50% glycerol (v/v), 25 mM Tris-HCl pH 7.5, 100 mM KCl, 0.1 mM EDTA, 1 mM DTT and stabilizers.

Quality control:

Free of endo- and exodeoxyribonucleases, phosphatases and ribonucleases. Activity and stability tested in first strand cDNA synthesis. SDS/PAGE - 82 kD monomer, >95% pure.

Shipping and Storage conditions:

Routine storage: -18°C to -28°C

Shipping and temporary storage for up to 1 month at room temperature has no detrimental effects on the quality of the reagents.

Manufactured by Solis BioDyne in compliance with the ISO 9001 and ISO 13485 certified Quality Management System.

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.

Recommended protocol:

Thaw and mix the following reaction components in a nuclease-free microcentrifuge tube.

Component	Volume	Final conc. (20 µl)
Template RNA	0,1 ng - 1 µg	variable
10x RT Reaction Premix without primers	2 µl	1x
Gene specific primer	1 µl	0,1-1 µM
SOLIScript Enzyme Mix	1,5 µl	
Nuclease-free H ₂ O	Up to 20 µl	
Total	20 µl	

Use the following programme for cDNA synthesis:

Step	Temperature	Time
Reverse transcription*	50°C	30 min
Enzyme inactivation	85°C	5 min

*Reaction temperature may be increased to 55°C-60°C for gene-specific primer and difficult templates with high secondary structure. Incubation time at 50°C may be increased to 60 minutes for maximum yield.

Safety warnings and precautions:

This product and its components should be handled only by persons trained in laboratory techniques. It is advisable to wear suitable protective clothing, such as laboratory overalls, gloves and safety glasses. Care should be taken to avoid contact with skin or eyes. In case of contact with skin or eyes, wash immediately with water. Refer to Safety Data Sheet for more information.

Technical support:

Contact your sales representative for any questions or send an email to support@solisbiodyne.com

Online chat is available at www.solisbiodyne.com

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