

Single Cell RT-PCR Assay Kit

Signosis has developed a sensitive single cell RT-PCR directly cell lysates without RNA preparation. Therefore, a small number of cells is enough for RT-PCR analysis. Signosis now offers the optimized buffers for subsequent RT-PCR, which followed cell lysis with CL™ cell lysis buffer. All of reagents for cDNA synthesis and PCR amplification in addition to CL™ cell lysis buffer are included in the kit.

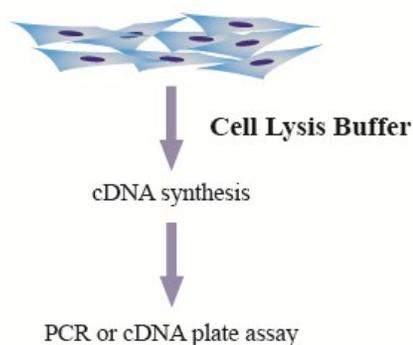
Benefits:

- **Convenient** - All reagents, from cell lysis, reverse transcription to PCR, are included in one kit.
- **No RNA preparation** - Cell lysates can be used directly in reverse transcription.
- **Robust** - Full length cDNA can be obtained with the kit.

Principal of the Technology:

The buffers are optimized for cell lysate preparation and RT-PCR .

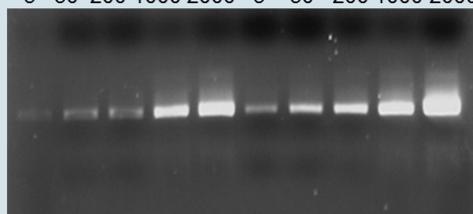
Via cell lysate preparation , cDNA synthesis with PCR machine, and PCR amplification, Gene Expression can be monitored.



Data

Cell # 5 50 200 1000 2000 5 50 200 1000 2000

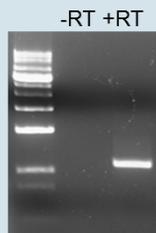
A:



Cell lysate from competitor

Cell lysate from Signosis

B:



A: The indicated cells were lysed with cell lysis buffer from Signosis and competitor respectively, and subjected to RT-PCR for β -actin with 30 cycles.

B: Testing no genomic DNA contamination. Lane1. β -actin was amplified with 36 PCR cycles directly from cell lysate without reverse transcription (RT). Lane2. β -actin was amplified with 36 PCR cycles directly from cDNA transcribed from cell lysate.

Product

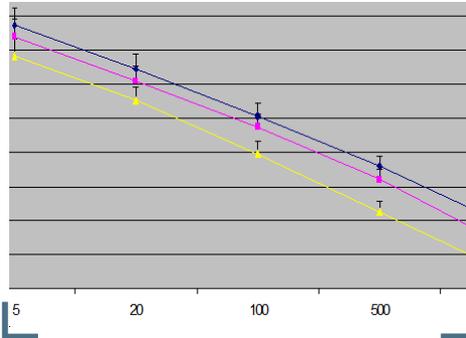
Single Cell RT-PCR Assay Kit

Cat.#

CL-0002

Single Cell RT-PCR Assay Kit

Detection of Limited Target Sequences from Cell Lysate



Signosis has developed a single cell SYBR green based real-time RT-PCR directly from cell lysates without RNA preparation. This kit provides a simple, sensitive, quantitative and cost-effective method to monitor PCR reactions in real time. All of reagents for cDNA synthesis and PCR amplification in addition to CL™ cell lysis buffer are included in the kit.

Benefits:

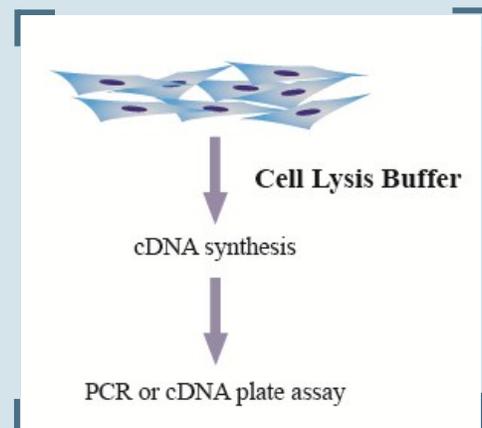
- Convenient** - All reagents, from cell lysis, reverse transcription to PCR, are included in one kit.
- No RNA preparation** - Cell lysates can be used directly in reverse transcription.
- Robust** - Full length cDNA can be obtained with the kit.
- Real-time** - Gene Expression can be monitored in real time.

Buffer of Cell Lysate for Reverse Transcription

The study of gene expression often needs RNA preparation followed by cDNA synthesis and PCR. However, difficulty in obtaining a large amount of cells for RNA preparation is the bottleneck in some of the studies, such as laser dissected samples, FACS sorted cells and the cultured cells in 96-wells. Cell number is limited (<2,000 cells), which restricts RNA preparation. Signosis' CL(TM) cell lysis buffer allows preparation of cell lysate, which can be used for direct reverse transcription without RNA preparation. Cell lysate made from a few cells is good enough for reverse transcription of RNA to cDNA, and following PCR analysis or cDNA plate array assays.

Benefits:

- Simplified procedures** - Reverse transcription can be performed in cell lysate without RNA preparation.
- Lower cell numbers** - A few cells are good enough to make cDNA for PCR.



Product	Cat.#
Single Cell Real-Time RT-PCR Assay Kit	CL-0003
Buffer of Cell Lysate for Reverse Transcription	CL-0001