

# gb Elite Reverse Transcription Kit

## Description of the product

gb Elite Reverse transcription kit contains buffer, dNTPs, primers (hexamers, oligo(dT)VN), RNase inhibitor and enzyme reverse transcriptase (MMLV), that converts RNA to cDNA, which can be analyzed in the PCR. MMLV reverse transcriptase originates from Moloney Murine Leukemia Virus.

## Purpose of the product

gb Elite Reverse Transcription Kit is intended for reverse transcription using enzyme MMLV reverse transcriptase. This enzyme converts RNA to cDNA (complementary DNA) in one step (without denaturation), you only have to add your template RNA. With gb Elite Reverse Transcription Kit, higher yields can be achieved, mainly due to higher sensitivity and resistance to RNases and inhibitors.

## Available products

Cat. No.	Product	rxn
3012	gb Elite Reverse Transcription Kit	20

1 tube contains reagents to provide 20 reverse transcriptions (20 µl volume of each reaction).

## Parameters of the product

- The product is prepared in a two-component form, it is enough to add only a sample of RNA after mixing the A component (solution) and B component (enzyme).
- 2× concentrated mixture sufficient for **20 reactions** is made by mixing both the components.
- RNA to cDNA transcription occurs in **one step** without the necessity of previous denaturation.
- **The input amount of RNA** for reverse transcription is 100–1000 ng.
- Reverse transcriptase is an **M-MLV transcriptase** which synthesizes cDNA molecules effectively up to 13 kilobases length at an optimum temperature of 42 °C.
- There are **poly(dT) oligonucleotides and degenerate hexamers** as well in the mixture, which means the kit could be also used for reverse transcription of RNA without poly (A) tails.

## Contents

**	Description	Volume	Concentration
●	Mix A - Elite ReverseT	1× 200 µl *	2×
○	Mix B - Elite ReverseT	(mixture A+B)	2×

\* 20 rxn – the number of reactions is calculated for volume of 20 µl / one PCR reaction

\*\* Lid colour

