

BigDye3.1 sequencing kit

Product Number: SGS48

Shipping and Storage

1. 5×Sequencing Buffer store at 2-8°C, BigDye3.1 and Sanger Sequency Mix store at -20°C.
2. Correctly stored, with a validity period of 12 months from receipt.

Components

Components	Specifications	Reaction count (5μL)
5×Sequencing Buffer	1mL	About 1000
BigDye3.1	1mL	Approximately 3000-4000 PCR products or 2000-2500 plasmid sequencing reactions
Sanger Sequencing Mix	1mL	About 500 PCR sequences or 350 plasmid sequences

Description

1. 5×Sequency Buffer and BigDye3.1 are both original products sold after packaging.
2. Sanger Sequency Mix is an optimized combination of 5 x Sequency Buffer and BigDye3.1, containing a certain amount of auxiliary additives.
3. In theory, 1ml BigDye3.1 needs to be paired with 2-3mL 5 x Sequency Buffer.
4. Purpose and scope of application: First generation sequencing reaction.

Note

1. The actual cost of the unit is relatively high, be careful when adding samples to reduce sample loss.
2. Before each experiment, perform instantaneous centrifugation to further reduce the loss of the tube wall.

Sequencing reaction system

1. 5μL sequencing amplification reaction system (self prepared)

Components	Volume
Template DNA (5-10ng PCR product or	1μL
BigDye3.1	0.25μL~0.5μL
5×Sequencing Buffer	1μL
Sequencing Unidirectional Primer 3.2μM	1μL
Deionized sterilized water	1.5μL~1.75μL
Total Volume	5μL

2. 5μL sequencing amplification reaction system (Mix)

Components	Volume
Template DNA (5-10ng PCR product or	1μL
Sanger Sequencing Mix	2μL~3μL
Sequencing Unidirectional Primer 3.2μM	1μL
Deionized sterilized water	0~1μL
Total Volume	5μL

Sequencing amplification reaction conditions

96°C

1min(see change)



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96°C	10s	}	25 cycles
50°C	10s		
60°C	4min		
60°C	5min(Extension and leveling)		
16°C	end		