

## CERTIFICATE OF ANALYSIS

### 70775Z1000UN Sequenase Version 2.0 DNA Polymerase

**Packaging Lot:** 2828875

**Expiry Date:** 30.11.2024 (DD.MM.YYYY)

**Storage:** at -20±5°C

#### Filling lots for components in package:

Lot	Quantity	Description
2816444	76.92 µL	Sequenase Version 2.0 DNA polymerase
2674683	1 mL	5X Sequenase™ Reaction Buffer
2815842	1 mL	Sequenase™ Enzyme Dilution Buffer

#### QUALITY CONTROL

Parameter	Method	Requirement	Result
Concentration	One unit of enzyme catalyzes the incorporation of 1 nmol of nucleotide into acid insoluble form in 30 sec at 37 °C.	13 U/µl ± 10 %	Conforms
Protein SDS-PAGE	SDS-Polyacrylamide gel analysis.	≥ 95%	Conforms
Single-Stranded Endonuclease	Incubation of circular single-stranded DNA with Sequenase Version 2.0 DNA Polymerase.	No detectable degradation of DNA	Conforms
Double-Stranded Endonuclease	Incubation of supercoiled plasmid DNA with Sequenase Version 2.0 DNA Polymerase.	No detectable degradation of DNA	Conforms
Single-stranded Exonuclease	Incubation of single stranded labeled DNA with Sequenase Version 2.0 DNA Polymerase.	No detectable degradation of DNA	Conforms
Double -Stranded Exonuclease	Incubation of double stranded labeled DNA with Sequenase V2.0 T7 DNA Polymerase.	No detectable degradation of DNA	Conforms
Functional Assay	Functionally tested in radioactive sequencing.	There are no extra or missing bands, there is an absence of stops and there is uniform band intensity when control and test sequencing reactions are compared under standard conditions.	Conforms

#### ISO CERTIFICATION

Manufactured by Thermo Fisher Scientific Baltics UAB, in compliance with ISO 9001 and ISO 13485 certified quality management system.

Quality authorized by QC: J. Žilinskienė

