

CERTIFICATE OF ANALYSIS

4458689 BigDye™ Direct Cycle Sequencing Kit

Packaging Lot: 2984710

Expiry Date: 30.04.2025 (DD.MM.YYYY)
Storage: at -20±5°C in the dark

Note: For Research Use Only. Not for use in diagnostic procedures.

Filling lots for components in package:

Lot	Quantity	Description
2966646	120 µL	BigDye™ Direct PCR Master Mix
2966648	48 µL	BigDye™ Direct Sequencing Master Mix
2973856	20 μL	Control DNA CEPH 1347-02
2967990	24 µL	BigDye™ Direct M13 Forward Primer
2967986	24 µL	BigDye™ Direct M13 Reverse Primer

QUALITY CONTROL

Parameter	Method	Requirement	Result
pH (PCR Master Mix, Sequencing Master Mix)	Measured using a pH meter at 25 °C.	Within range of target pH	Pass
Mg ²⁺ Concentration (PCR Master Mix)	Determined by analytical method.	Within range of target concentration	Pass
dATP Concentration (PCR Master Mix)	Determined by analytical method.	Within range of target concentration	Pass
dCTP Concentration (PCR Master Mix)	Determined by analytical method.	Within range of target concentration	Pass
dGTP Concentration (PCR Master Mix)	Determined by analytical method.	Within range of target concentration	Pass
dTTP Concentration (PCR Master Mix)	Determined by analytical method.	Within range of target concentration	Pass
DNase (PCR Master Mix)	Determined by analytical method.	≤ 155 pg / 1U	Pass
RNase (PCR Master Mix)	Determined by analytical method.	≤ 1.15 pg / 1U	Pass
E. coli Ori (PCR Master Mix)	Bacterial DNA Burden.	≤ 4.000 copy	Pass
Functional test (PCR Master Mix)	PCR amplification of specific fragment from human genomic DNA and analysis on E-Gel.	Reaction produces 1 specific PCR product, which is correct length and yield	Pass
Functional test (Sequencing Master Mix)	Product is tested for DNA Sequencing functional performance on a Genetic Analyzer.	• Contiguous Read Length (KB-QV20) ≥ 580 bp • Base Calling Accuracy (98.5%) ≥ 580 bp	Pass

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Purity (M13 forward primer, M13 reverse primer)	Determined by HPLC.	Meet predetermined specifications	Pass
Concentration (M13 forward primer, M13 reverse primer)	Determined by analytical method.	Meet predetermined specifications	Pass
Physical inspection	Components are inspected for correct label and lot number. Caps are tightened to manufacturer's recommended torque.	Tube label inspection Torque check	Pass

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



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