

CERTIFICATE OF ANALYSIS

A25741 PowerUp™ SYBR™ Green Master Mix
Packaging Lot: 3497606
 Expiry Date: 31.05.2028 (DD.MM.YYYY)
 Storage: at 5±3°C in the dark
 Note: **For Research Use Only. Not for use in diagnostic procedures.**

Filling lots for components in package:

Lot	Quantity	Description
3497606	1 mL	PowerUp™ SYBR™ Green Master Mix

QUALITY CONTROL

Parameter	Method	Requirement	Result
Functional test	Functional test performed on Applied Biosystems Real-Time PCR System.	- Average Ct of NTC reactions ≥ 37.0 - Average Ct for the third concentration point 20.2 – 23.2 Ct - The R^2 for the standard curve ≥ 0.98 - PCR efficiency 85 – 115 % - Average delta Rn for the second concentration point 3.6 – 10.6 Ct	Pass
dNTP concentrations	Determined by analytical method.	- dATP: 0.43 – 0.58 mM - dCTP: 0.43 – 0.58 mM - dGTP: 0.43 – 0.58 mM - dTTP: 0.21 - 0.29 mM - dUTP: 0.85 - 1.15 mM	Pass
Mg ²⁺ concentration	Determined by analytical method.	4.76 - 6.44 mM	Pass
pH	Measured using pH meter at 25°C.	8.23 - 8.53	Pass
DNase equivalents level	Determined by analytical method.	≤ 155	Pass
RNase equivalents level	Determined by analytical method.	≤ 1.15	Pass
<i>E. coli</i> DNA Burden	Determined by analytical method.	≤ 4 copy	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: **E. Laveckis** 