



Certificates SDS

Applied Biosystems™

PowerUp™ SYBR™ Green Master Mix for qPCR

Pre-formulated, optimized, universal 2X master mix for real-time PCR workflows.

Have Questions? [Contact Us](#)

Change view

Catalog Number	Quantity
A25918	10 x 1 mL
A25741	1 mL
A25742	5 mL
A25743	50 mL
A25778	10 x 5 mL

Catalog number A25918



Price (MDL)

-

[Contact Us](#)

Quantity:

10 x 1 mL

PowerUp™ SYBR™ Green Master Mix is a pre-formulated, optimized, universal 2X master mix for real-time PCR workflows. Coupled with user-supplied primer sets and template, PowerUp™ SYBR™ Green Master Mix is designed to amplify targets for accurate gene expression analysis.

PowerUp™ SYBR™ Green Master Mix features include:

- A dual hot-start mechanism for excellent specificity
- Highly reproducible CTs over a broad dynamic range
- Inclusion of UDG to help prevent carryover contamination
- Stability of pre-assembled reactions for up to 72 hours
- Compatibility with most real-time qPCR instruments

Exceptional specificity with dual hot-start mechanism

Specificity is paramount in obtaining high-quality data in SYBR™ Green reactions and can be enhanced through control of the Taq DNA polymerase at lower temperatures before stringent primer binding. PowerUp™ SYBR™ Green Master Mix uses the Dual-Lock™ Taq DNA polymerase enzyme that combines two unique hot-start mechanisms to help control its activity and to prevent undesirable early activity of the polymerase at low temperatures. In an experiment evaluating 24 different primer sets, PowerUp™ SYBR™ Green Master Mix generated single melt curves 100% of the time, consistent with highly specific amplification.

Tight reproducibility in CTs over a wide dynamic range

PowerUp™ SYBR™ Green Master Mix demonstrates excellent reproducibility over a wide dynamic range for a variety of targets tested (see figure). In addition, this master mix provides efficient amplification over 6 logs of sample input. Unlike competitor mixes that can exhibit inhibition at high cDNA inputs and low correlation coefficients over a dynamic range experiment, PowerUp™ SYBR™ Green Master Mix efficiency is maintained over the full dynamic range to help deliver maximal confidence in data quality (see figure).

UDG included for carryover contamination control

The inclusion of uracil-DNA glycosylase (UDG) and dUTP in the PowerUp™ SYBR™ Green Master Mix enables the degradation of any previously amplified PCR products, helping prevent contamination of subsequent qPCR reactions and possible false positives.

Broad instrument compatibility

PowerUp™ SYBR™ Green Master Mix can be used in either standard or fast cycling mode and is compatible with all Applied Biosystems™ real-time PCR instruments². It is also compatible with the Bio-Rad IQ™5 and CFX96™ / CFX384™ systems, Roche LightCycler™ LC480, and Stratagene™ MX3005P™ systems. For optimal results, recommended primer concentrations are 300–800 nM.

¹Pre-PCR stability is influenced not only by the master mix, but also by the target being analyzed. For maximum confidence, researchers should confirm stability profiles of their specific targets.

² For optimal performance, standard cycling using the Applied Biosystems™ 7900 system is recommended.

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

Specifications

For Use With (Equipment)	7500 Fast System, 7500 System, 7900HT System, QuantStudio 12k Flex, QuantStudio 3, QuantStudio 5, QuantStudio 6 Flex, QuantStudio 6 Pro, QuantStudio 7 Pro, QuantStudio 7 Flex, StepOne, StepOnePlus, ViiA 7 System, Roche LightCycler PRO System, Bio-Rad CFX Opus 96 Real-Time PCR System
Format	Tube
Includes	dUTP, UNG/UDG
Inhibitor Tolerance (Simple)	Medium
Multiplex Capability	Single-plex
No. of Reactions	1000 Reactions
Passive Reference Dye	ROX (Pre-mixed)
Polymerase	Dual-Lock Taq DNA Polymerase
Product Line	PowerUP, SYBR
Product Type	Real Time PCR SYBR Master Mix
Quantity	10 x 1 mL
Sample Type	DNA
Shipping Condition	Wet Ice
Sufficient For	1000 Reactions of 20 µL

Volume	10 x 1 mL
Concentration	2X
Detection Method	SYBR
For Use With (Application)	Gene Expression
PCR Method	qPCR
Reaction Speed	Fast or Standard
Unit Size	Each

Contents & Storage

The 2X mix contains SYBR Green dye, Dual-Lock Taq DNA Polymerase, dNTPs with dUTP/dTTP blend, heat-labile UDG, ROX passive reference dye, and optimized buffer components. Contains 10 x 1 mL tube, sufficient for 1000 20-µL reactions (10 µL Master Mix per reaction).

Store at 2–8°C in the dark.



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Frequently asked questions (FAQs)

Which enzyme does the PowerUp SYBR Green Master Mix (Cat. No. A25741, A25742, A25743, A25776, A25777, A25778, A25779, A25780, A25918) have? What is the advantage of this enzyme?



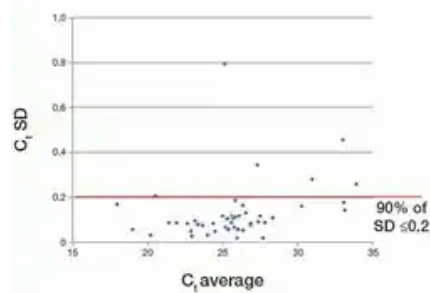
What is the difference between Power SYBR Green Master Mix and PowerUp SYBR Green Master Mix? ✓

Which instruments are compatible with the PowerUp SYBR Green Master Mix? ✓

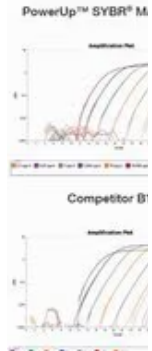
Figures

Target gene	Time = 0 hr	Time = 72 hr	ΔC_t
ADAM10	25.2	25.6	0.4
APGA1	24.9	24.9	0.0
CCNB1	26.0	26.1	0.1
COL1A1	23.9	23.9	0.1
CTGF	24.3	24.7	0.3
METTL3	26.3	26.7	0.3

Pre-PCR stability



Excellent reproducibility
over a wide dynamic range



Robust performance
compared to competitor

Documents & Downloads

Certificates

Q Search by lot number or partial lot number

Search

Lot #	Certificate Type	Date	Catalog Number(s)
 3497606	Certificate of Analysis	Jun 23, 2026	A25741
 3502475	Certificate of Analysis	Jun 19, 2026	A25742
 3498421	Certificate of Analysis	Jun 18, 2026	A25743
 3499723	Certificate of Analysis	Jun 08, 2026	A25742
 3497596	Certificate of Analysis	Jun 03, 2026	A25741

Safety Data Sheets

[SDS](#)

Scientific Resources

Brochures

[Real-time PCR master mixes and instrument compatibility charts](#)[Brochure: PowerUp SYBR Green Mater Mix \(Chinese\)](#)[Guidelines for comparing SYBR Green master mixes](#)

Application Notes

[White Paper: Design and optimization of SYBR Green assays](#)

Reference Materials

[White paper: Design and optimization of SYBR Green assays](#)

Product Information

Manuals

[User Guide: PowerUp SYBR Green Master Mix - Universal 2X master mix for real-time PCR workflows](#)[Quick Reference: PowerUp SYBR Green Master Mix](#)[PowerUp SYBR Green Master Mix Short USER GUIDE \(Chinese\)](#)

Product Bulletins



