

Accuris™ qMax™ Green High ROX qPCR Mix

Description

Accuris qMax Green High ROX qPCR Mix is a single tube formulation for sensitive and efficient real-time, quantitative PCR assays with the option of post amplification melt profiles. The proprietary qMax Green dye provides a high level of fluorescence when bound to double stranded DNA with minimal PCR inhibition. The mix is optimized for earlier threshold detection cycles (C_t) and fast cycling with exceptional, reproducible results. Ideal for genomic DNA, cDNA and dilute templates.

Refer to www.accuris-usa.com/PCR-Reagents to determine the ROX level appropriate for your specific cycler.

- Ideal for fluorescent DNA/cDNA detection, gene expression analysis and sequence variant screening.

- Utilizes high quality, Accuris Hot Start Taq Polymerase to reduce nonspecific binding and provide easy reaction set up.

- A unique combination of salts, pH and PCR enhancers allow for detection of dilute targets and earlier C_t values.

- Compatible with fast cycling protocols.

Storage

Upon receipt, immediately store at -20°C . Avoid excessive freeze/thaw cycles. When stored as directed, this product will retain its activity for 12 months from date of receipt. The product may also be stored at 4°C for up to one month.

Limitations of Use

For research purposes only. Not intended for therapeutic or diagnostic use.

Quality Control

Accuris qPCR mixes are tested for efficiency, activity, sensitivity, processivity, heat activation, and absence of nuclease and nucleic acid contamination. This product is manufactured under a comprehensive quality management system, following ISO 9001:2008 standards.

General Guidelines

1. 2X Taq Master Mix

The Master Mix contains Accuris Taq Hot Start DNA polymerase, qMax Green (a proprietary, fluorescent binding dye), dNTPs and an optimized buffer designed specifically for maximum efficiency, sensitivity and successful quantitative PCR.

2. Amplicon

The optimal amplicon length should range from 80 to 200 base pairs. Length should not exceed 400 base pairs.

3. Primers

Primers should have a predicted melting temperature (T_m) of approximately 60°C , using primer design software such as Primer 3 (<http://frodo.wi.mit.edu/primer3>) or visual OMPTM (<http://dnasoftware.com/>).

4. Reference Dyes (ROX™)

ROX passive reference dyes are required by some real-time PCR instruments. Not all instruments require the same level of ROX, and many of the newer instruments do not require passive reference but include the option to use it for normalization. To determine which kit matches the ROX level required by your instrument, visit www.accuris-usa.com/PCR-Reagents.

Technical Support

For trouble-shooting and tech support, contact us by phone at 908 769-5555 or email info@accuris-usa.com. When possible, please include instrument model, reaction conditions, PCR parameters, amplicon size and any traces and melting profiles.

Accuris is not responsible for consequential or incidental damages, whether direct or indirect, resulting from use of this product. Accuris guarantees the performance of this product as described when used in accordance with these instructions. It is the responsibility of the purchaser to determine the suitability of this product for their particular application.

Reaction setup

Briefly vortex the 2X mix before adding to the reaction

Component	20 μl reaction	Final concentration
Accuris qMax 2X Green Master Mix	10 μl	1X
Forward Primer (10 μM)	0.8 μl	400 nM
Reverse Primer (10 μM)	0.8 μl	400 nM
Template DNA	<100 ng cDNA, <1 μg genomic	variable
PCR-grade water	to final reaction volume	

For other volumes, adjust the amount of each component accordingly.

Gently mix the solution. If needed, spin briefly in a microcentrifuge to bring reaction mixture to the bottom of the tube. Transfer samples to a real time thermal cycler, acquiring data on the SYBR Green or FAM channel.

PCR Program

Step	Temperature	Time
Initial denaturation	95°C	2 minutes (3 minutes for genomic DNA)
40 cycles*	95°C	5 seconds
	$60^{\circ} - 65^{\circ}\text{C}$	20-30 seconds
Melt Analysis (optional)		

*Do not use temperatures below 60° or exceed 30 seconds.

Package contents and reordering

Accuris qMax Green High ROX qPCR Master Mix, supplied in 100, 500 and 1000 reaction (20 μl) packages.

Accuris qMax Green High ROX qPCR Master Mix, Sample Pack

Catalog number PR2000-H-S

Includes 200 μl of 2X Master Mix (20 rxns)

Accuris qMax Green High ROX qPCR Master Mix, 100 reactions

Catalog number PR2000-H-100

Includes 1.0ml of 2X Master Mix (100 rxns)

Accuris qMax Green High ROX qPCR Master Mix, 500 reactions

Catalog number PR2000-H-500

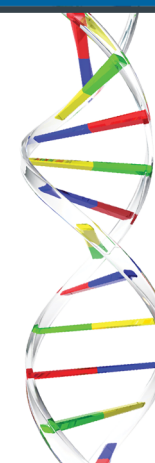
Includes 5x1.0ml of 2X Master Mix (500 rxns)

Accuris qMax Green High ROX qPCR Master Mix, 1000 reactions

Catalog number PR2000-H-1000

Includes 10x1.0ml of 2X Master Mix (1000 rxns)

Accuris offers a full line of PCR enzymes and master mixes. Visit www.accuris-usa.com for details.



Accuris™
qMax™ Green
High ROX qPCR Mix

One Tube Formulation, 2X Concentration

Package contains:
1.0ml of 2X qMax Green High ROX qPCR Mix
100 reactions, Based on 20 μl total reaction volume
Store at -20°C upon receipt

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