WISENT ADVANCED^{tm} qPCR mastermix with SUPERGREEN^{tm} dye

ORDERING INFORMATION:

Catalogue number	Quantity	specification
800-431-UL	1 X 1 ml	**LOW ROX**
800-433-UL	3 X 1 ml	**LOW ROX**
800-435-UL	5 X 1 ml	**LOW ROX**

ALSO AVAILABLE IN 50 ML BULK FORMAT, PLEASE INQUIRE

For instrument compatibility refer to APPENDIX I

Catalogue number	Quantity	specification
800-441-UL	1 X 1 ml	**HIGH ROX**
800-443-UL	3 X 1 ml	**HIGH ROX**
800-445-UL	5 X 1 ml	**HIGH ROX**

ALSO AVAILABLE IN 50 ML BULK FORMAT, PLEASE INQUIRE

For instrument compatibility refer to APPENDIX I

PRODUCT DESCRIPTION:

Our ADVANCED mastermix takes advantage of the latest advancements in polymerase technology and uses advanced buffer technology offering market leading performance. The Supergreen^{tm} dye does not inhibit PCR, unlike other dyes. The mastermix uses a unique small molecular inhibitor technology that prevents formation of primer dimers. The buffer system allows efficient amplification from GC-rich and AT-rich templates. The product is intended for in vitro research purposes.

PRODUCT STABILITY AND STORAGE:

On arrival store at -20°C.

Avoid prolonged exposure to light.

If stored correctly the mastermix will retain full activity for 12 months. It is stable at 4°C for 1 month and can go through 30 freeze/thaw cycles with no loss of activity.

DIRECTIONS FOR USE:

Note: For efficient amplification under fast cycling conditions we recommend amplicon lengths between 80bp and 200bp. Do not exceed 400 bp. The shorter the amplicon length the faster the reaction can be cycled. Primers should have a predicted melting temperature of around 60°C, using default Primer 3 settings.

REACTION SETUP:

1. Before starting, briefly vortex 2x WISENT ADVANCED MASTERMIX .
2. Prepare a final mix , recommended 20 ul, as follows:

Add:	**Final concentration:**
A. WISENT ADVANCED MASTERMIX : 10 ul	1X
B. Forward primer (10 uM) 0.8 ul	400 nM
C. Reverse primer (10 uM) 0.8 ul	400 nM
D. Template DNA < 100 ng cDNA or < 1 ug genomic	variable
E. Add PCR grade water up to 20 ul final volume	

Program your instrument using following conditions, acquiring data on the SYBR® Green or FAM channel:

Cycles	Temperature	Time	Notes
1	95°C	2min: cDNA 3min: genomic	Polymerase activation
40	95°C	5 seconds	Denaturation
	60°C to 65°C	20-30 seconds	Anneal/Extension, do not exceed 30 seconds, do not use temperatures below 60°C
Melt analysis	Refer to instrument instructions		optional