

PRODUCT SHEET



Biomeme

LyoRNA™ 2.0

Master Mix

Go-Plates

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LyoRNA™ 2.0 Master Mix Go-Plates

Biomeme LyoRNA™ 2.0 Master Mix Go-Plates are 96-well, low-profile plastic plates containing lyophilized master mix for fluorescent probe-based reverse transcription polymerase chain reaction (RT-PCR) analysis of RNA targets. Manufactured for use with any real-time thermocycler that accepts low profile products.

LyoRNA™ 2.0 Master Mix Go-Plates contain master mix as a dry reagent. A proprietary freeze-drying process ensures it remains stable at ambient temperatures and does not require refrigeration for transport or storage.

LyoRNA™ 2.0 Master Mix Go-Plates are formulated for 20 µL PCR reactions.

For a complete RT-PCR reaction, add oligonucleotide primers and probe(s) specific to the RNA target(s) RNA template.

Safety Warning: When working with our products, always wear appropriate personal protective equipment (PPE) (e.g. lab coat, disposable gloves with adequate chemical resistance, mouth/face protection, goggles, etc.) For more information, please review the product's safety data sheet(s) (SDS)..

Contents

CONTENTS	VOLUME
Go-Plate Pouch	1x 96-Well PCR Plate

Technical Characteristics

SPECIFICATIONS	VALUE
Tube Capacity	0.1 mL
Reaction Volume	20 μ L
Plate Seal	Temporary Foil Heat Seal
DNA-dependent DNA-polymerase	Hotstart Taq polymerase (1 min. activation @ 95°C)
Reverse Transcriptase	Thermostable reverse transcriptase (2 min RT step @ 55C)
Nucleotides	Proprietary mix of dNTPs

Buffer	Tris pH 8.8 Salts and enhancers for 5' nuclease assays
Mg ⁺⁺	6 mM
Storage	15-30°C
Shelf life	18 months
Dissolution time	~60s

Note: Contains Bovine Serum Albumin of USA origin. Certified BSE free.

Recommended Reaction Mix

REAGENT	VOLUME
Primer + probe(s)	1 μ L (20x)
Sample	1-19 μ L
DNase/RNase Free Molecular Grade Water (Optional)	0-18 μ L (Only required if the Sample volume is less than 19 μ L)

Loading Sample into Go-Plates

- Transfer 1 to 19 μ L of the purified sample and 1 μ L of your primer + probe(s) into each well of your Go-Plate.

- Once all wells of your Go-Plate are filled, place an optically clear adhesive seal onto the plate for large format real-time PCR machines.

Note: If less than 19 μ L of purified sample is added to each well of your Go-Plate, the final volume will need to be brought up to 20 μ L using DNase/RNase Free Molecular Grade Water.

Compatible Thermocyclers

- Biomeme Franklin™ Thermocycler**
- Roche LightCycler 480 96-well*
- Roche COBAS z 480 96-well*
- Roche LightCycler 96-well
- Bio-Rad CFX 96-well
- Bio-Rad CFX 96-well Deep-well
- Applied Biosystems real-time thermal cyclers with a 96-well fast block

**If you use Biomeme Go-Plates, these devices require an adaptor.*

***If you use Biomeme Go-Plates in a Biomeme Franklin™ Thermocycler, the Go-Plates need to be cut to fit the 9-well device and require Void Filling Caps.*

Franklin Thermocycling Parameters

LyoRNA 2.0 Protocol in the Biomeme Go App:

	Temperature (°C)	Duration
RT Step	55	120 secs
Initial Denature	95	60 secs
Cycling Denature	95	1 secs
Annealing	60	20 secs

Extension	N/A	N/A
Melt Curve	N/A	N/A
Number of Cycles: 45		Total Reaction Volume: 20 uL

Note: This is our recommended thermocycling protocol for base LyoRNA 2.0 Master Mix on the Biomeme Franklin Mobile Thermocycler. Exact parameters may need to be adjust depending on assay or thermocycler characteristics

Storage

All components of the Go-Plate should be stored in a dry place, at room temperature (15-30°C).

Once the resealable test plate pouch has been opened, ensure that it is closed completely between use. Individual test plates should be used within a reasonable period of time after removal from the individual foil pouch. Once opened, the dry reagent resists high humidity for up to one hour.

Addition of glycerol to PCR reactions can affect results. The effect of glycerol on your PCR reaction should be evaluated before using master mix stored in glycerol.

Disclaimer

For Research Use Only. Not for use in human or veterinary diagnostics. The performance characteristics of this product have not been Established.

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