

# Amplify<sup>RP</sup><sup>TM</sup>

## LAMP Master Mix



### Simple

One-step solution. Just add primers for detection of DNA targets (add RT for RNA targets).



### Sensitive

Specially formulated solution for enhanced sensitivity with minimal background noise.



### Stable

Compatible with a wide range of sample matrices. Can be freeze-dried for maximum stability.



### Guaranteed

Backed by our warranty, 40+ years in business and experienced technical support team.

## Deploy & Detect with AmpliFire<sup>®</sup>

Bring your LAMP or any other isothermal test kits to the field with the portable, modular AmpliFire<sup>®</sup> Pro. Scalable from small-scale to high-throughput applications.



## Why Choose Amplify<sup>RP</sup><sup>®</sup>?

With over 40 years of experience developing & validating hundreds of commercialized test kits across industries, we know diagnostics. We are your one-stop shop for contract development, scale-up and manufacturing.

Want shelf-stable, field-deployable reagents? Our lyophilization-ready formulation for Amplify<sup>RP</sup> LAMP Master Mix beats the competition when freeze-dried for maximum stability.



## Intended Use:

AmplifyRP® LAMP Master Mix is a ready-to-use solution for real-time isothermal detection of DNA targets. For detection of RNA targets, you must add reverse transcriptase (not included). This solution is lyophilization-ready. Contact us if you are interested in lyophilization (freeze-drying) services for improved stability of your final product.

**Dye Channel:** FAM

## Storage:

The master mix should be stored frozen (-10 to -30 °C).

## Recommended Running Conditions

**Note:** Turn on and set up fluorometric reader before preparing solutions.

10X Primer Stock	
Primer	Concentration
Outer Primers	2 µM
Inner Primers	16 µM
Loop Primers	4 µM

Reaction Mix Conditions			
Reagent	Volume	Volume	Final Concentration
2X Agdia LAMP Mix	12.5 µL	12.5 µL	1X
10X Primers	2.5 µL	2.5 µL	1X
RT (200 U/µL)	0.25 µL	-	50 Units
Sample DNA	-	1 - 5 µL	variable
Sample RNA	1 - 5 µL	-	variable
Water	to 25 µL	to 25 µL	-

### Contents of Kit:

- 2X Master Mix

### Not Included but Required:

- LAMP Primers
- Fluorometer for real-time analysis (ex: AmpliFire)
- Pipettes
- Reverse Transcriptase (If detecting RNA targets)

## AmpliFire® Operation

1. Turn on the AmpliFire.
2. Scan the QR code generated with Agdia AmpliCode™, <https://amplicode.agdia.com/>. A QR code can be found to the right to run the machine at 65° C for 20 minutes with FAM detection.
3. **(Optional)** Label run and sample.
4. Prepare the reaction mix above and aliquot to 0.2 mL optically clear PCR tubes.
5. Add samples the reaction tube wall.
6. Thoroughly mix reaction and spin to collect liquid in the bottom of the tube.
7. Place reactions into the AmpliFire and press start.



This is a generic barcode to run at 65 °C for 20 minutes on the FAM channel of the AmpliFire.

## Limitations

**Contamination:** LAMP is extremely sensitive, avoid contamination by discarding completed reactions and not opening reaction tubes.

**Light Sensitive:** The 2X master mix is light sensitive.

**Freeze-Thaw:** Aliquot to limit number of freeze-thaw cycles. Keep on ice during use.

**In vitro:** For *in vitro* use only.

## Questions or Technical Support

Phone: 800-622-4342 (toll-free) or 574-264-2014

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E-mail: [info@agdia.com](mailto:info@agdia.com) for sales and general product information  
[techsupport@agdia.com](mailto:techsupport@agdia.com) for technical information and troubleshooting

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