





# Air-Dryable Mixes






Ready-to-use RT-qPCR and qPCR Mixes ideal for oven or air-drying technologies

## SUITABLE APPLICATIONS

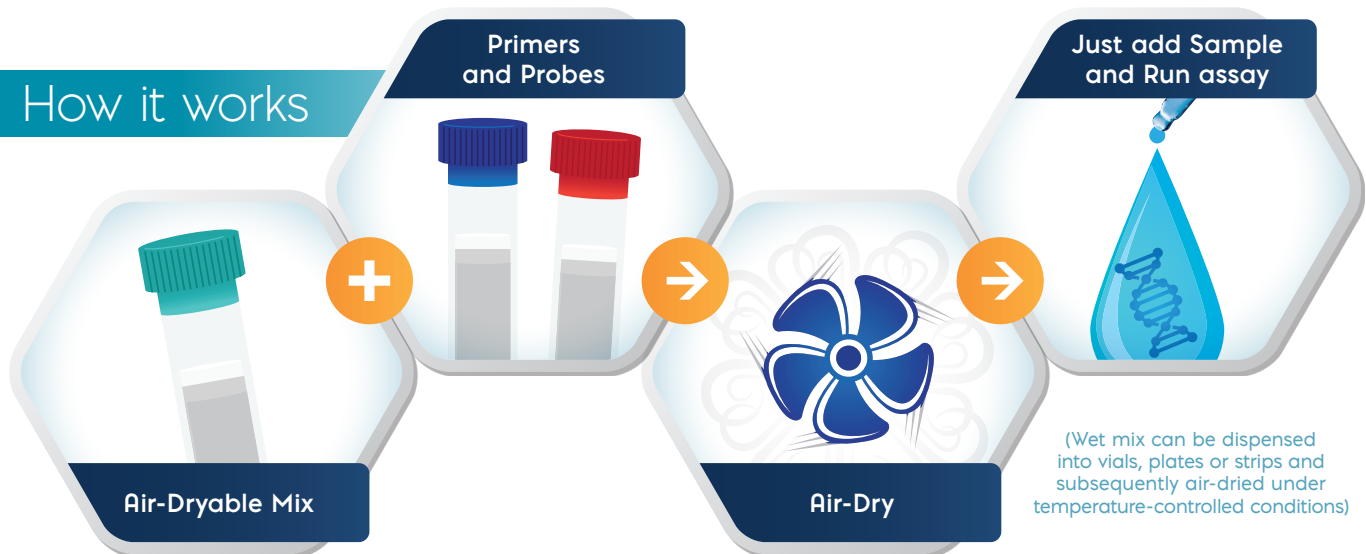
-  Human Diagnostics
-  Food Testing
-  Environmental
-  Vet Health

Air-Dryable RT-qPCR and qPCR mixes are glycerol-free mixes that contain optimized excipients compatible with air and oven drying. The mixes are easy to use and ideal for developing ambient temperature, multiplex molecular assays. Advantages to ambient-temperature assays include room temperature shipping and storage, extended shelf-life and increased flexibility in sample volume.

## What you need

-  ✓ Air-Dryable Mix, 4x
-  ✓ Primers & Probes
-  ✓ Oven
-  ✗ Excipients to stabilize the mix
-  ✗ Freeze drying equipment (e.g. refrigeration system, vacuum, condenser etc.)

## How it works




➤ To test a sample or to ask additional questions, E: [info@meridianlifescience.com](mailto:info@meridianlifescience.com)

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# Air-Dryable RT-qPCR and qPCR mixes

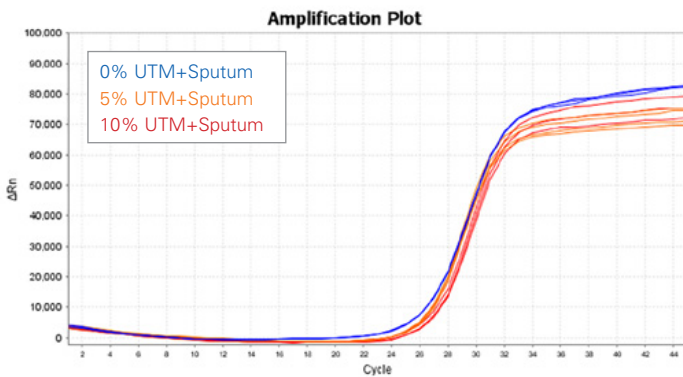
- Simple and easy to use
- Ideal for multiplex assays on POC diagnostic platforms or automated high-throughput instruments
- Compatible with a range of air-drying protocols to produce an ambient temperature stable mix
- Reduces cost and complexity

PRODUCT	CAT NO.	VOLUME	REACTIONS
 <b>Air-Dryable™ 1-Step RT-qPCR Mix, 4x</b>	MDX095	5 mL	1,000 Rxn
		50 mL	10,000 Rxn
<b>Air-Dryable™ qPCR Mix, 4x</b>	MDX082	5 mL	1,000 Rxn
		50 mL	10,000 Rxn

## RT-qPCR Data Highlights

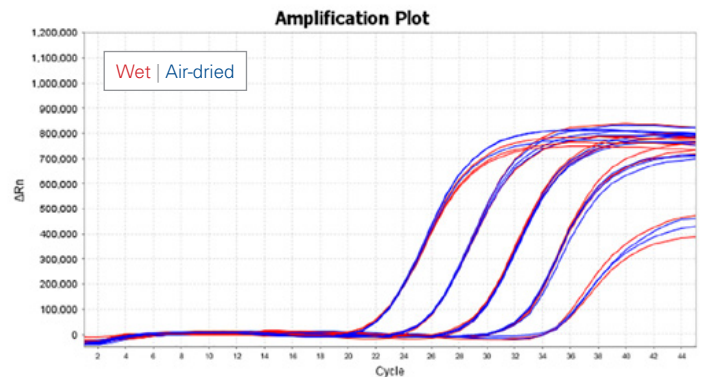
### High-tolerance to PCR inhibitors in sputum

Amplification profile of a mouse RNA target spiked into samples containing 10%, 5% or 0% artificial sputum in Universal Transport Media (UTM). The data illustrates that the performance of Air-Dryable™ 1-Step RT-qPCR Mix (MDX095) exhibits high tolerance towards inhibitors present in artificial sputum and UTM.



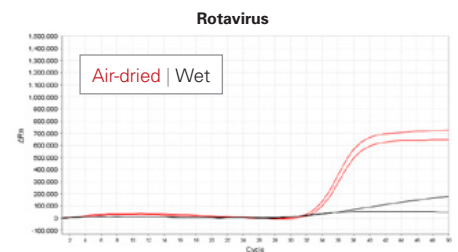
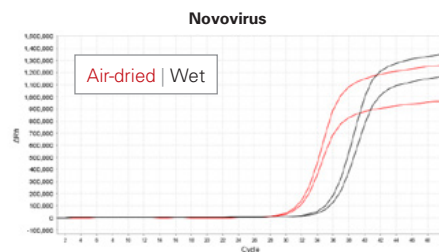
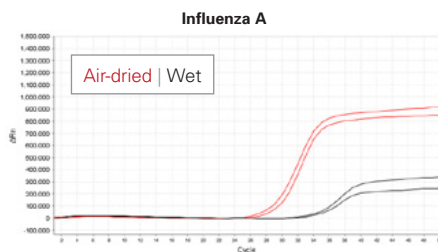
### Full enzyme activity following air-drying

Activity of Air-Dryable™ 1-Step RT-qPCR Mix in both wet and air-dried formats were compared on 10-fold dilution mouse RNA template. The air-dried mix showed no loss of activity and sensitivity when compared to freshly prepared wet mix up to the assay limit of detection.



### High efficiency and sensitivity in multiplex reactions

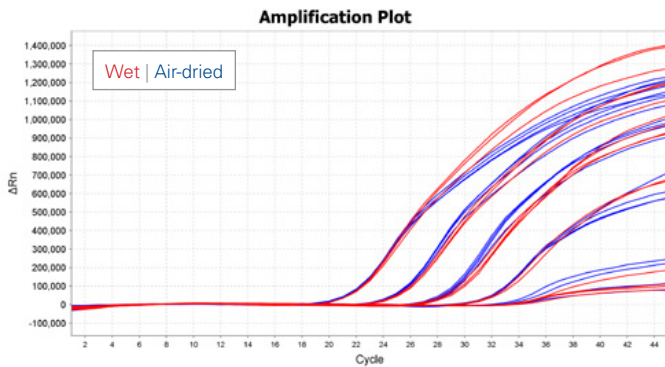
Amplification profiles of different RNA viruses (Influenza A, Norovirus and Rotavirus) in a multiplex reaction. The results demonstrate the increased performance of air-dried MDX095 (red) against a standard wet RT-qPCR Mix (black) for the detection of viral RNA.



## qPCR Data Highlights

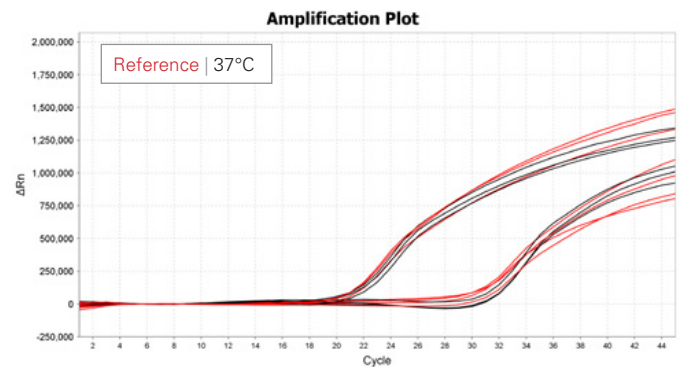
### Full enzyme activity following air-drying

Activity of Air-Dryable™ qPCR Mix in both wet and air-dried formats was compared by singleplex qPCR assay on 10-fold dilution mouse cDNA template. The air-dried mix showed no loss of activity and sensitivity when compared to freshly prepared wet mix up to the assay limit of detection.



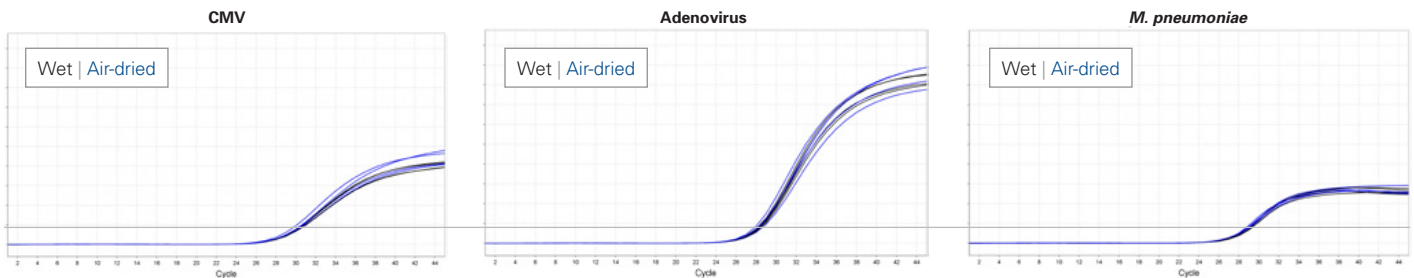
### Stable shelf-life for up to 12 months

Air-Dryable™ qPCR Mix was air-dried and the stability was tested in an accelerated stability study. The air-dried mix was incubated at 37°C for 8 weeks and tested against a freshly prepared mix by qPCR assay on 100-fold template dilutions. Results suggest that the air-dried mix is active following accelerated stability tests with projected 12 months stability at ambient temperature.



### High efficiency and sensitivity in multiplex reactions

Activity of Air-Dryable™ qPCR Mix in both wet and air-dried formats was compared by multiplex qPCR assay on complex DNA template from an inactivated respiratory pathogen panel (CMV, Adenovirus, *M. pneumoniae*). Results show no loss of activity for the Air-Dryable™ qPCR Mix and a high multiplexing capability following air-drying.



➤ To test a sample or to ask additional questions, E: [info@meridianlifescience.com](mailto:info@meridianlifescience.com)

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