OEM Solutions - AirDry & Lyo-Ready

highQu
professionally simple

premium research tools since 2013

Why highQu?

Professionally simple & ALLin™ concept

- Professionally simple - easy-to-use reagents, fast protocols
- ALLin™ - all-included product & kit formulations
- Robust performance allowing to save time and money
- Scientific track record, growing number of publications since 2013
- Recognized as partner with unique add-on services
- Produced under stringent quality requirements

OEM PRODUCT EXAMPLES

One-step RT qPCR

- LYO-READY 4X 1Step RT-qPCR Probe Kits
- AIR-DRY 4X 1Step RT qPCR Probe Mix in a single tube format
- 4X 1Step RT qPCR Kits in liquid format

qPCR

- LYO-READY qPCR Probe Mixes
- ORA™ qPCR Probe Mixes

PCR

- LYO-READY Hot Start Taq Polymerase
- ALLin™ Hot Start Taq Polymerase
- dNTP Mixes and Sets

Reverse Transcription

- LYO-READY Reverse Transcriptase & RNAse Inhibitor Blend
- HighScriber™ Reverse Transcriptase
- SecurRIN™ Advanced RNase Inhibitor

Tools for NA isolation

- Proteinase K MGB Solution
- Synthetic Carrier RNA for precipitation of diluted NA samples

LAMP & isothermal amplification

- ALLin™ Isothermal DNA Amplification Kit
- ALLin™ Isothermal 1Step RNA Amplification Kit

highQu.com / Germany / +49 7250 33 13 401 / info@highqu.com

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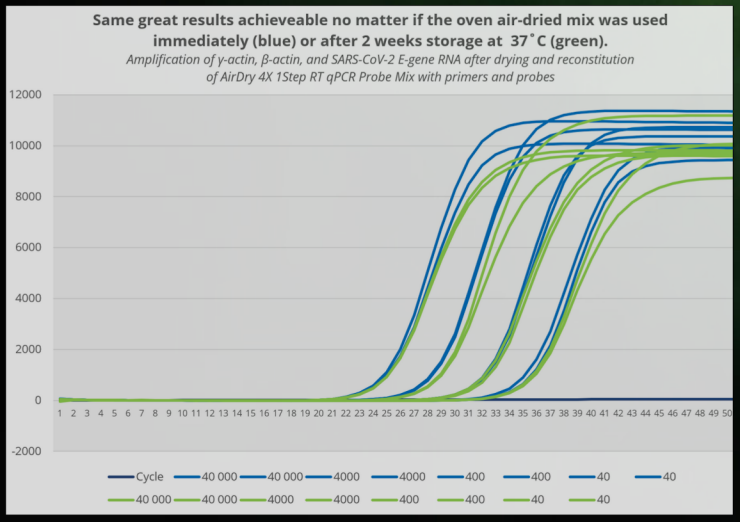
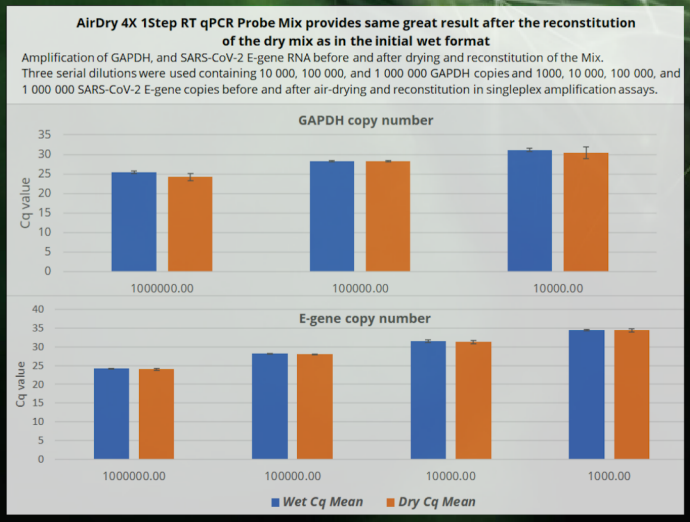
NEW AirDry 4X 1Step RT qPCR Mix

- **Air dryable, single-tube format 1Step RT qPCR Probe Mix**
- **qPCR mix blended with Reverse transcriptase and RNase Inhibitor**
- **Fast, oven drying procedure for ambient storage of diagnostic kits**
- **Just add primers and probes, oven-dry in minutes, and the end user will reconstitute it with the aqueous sample solution**
- **Ideal for multiplex reactions, universal for RNA or DNA detection**

Format	Liquid 4X 1Step RT qPCR Kit	Lyo-ready 4X 1Step RT qPCR Kit	AirDry 4X 1Step RT qPCR Mix
What to do?	Develop liquid probe-based RT qPCR diagnostic kits for cold chain shipment	Develop dry-format probe-based RT qPCR diagnostic kits for ambient temperature shipment and storage	
Performance	• **Detects <5 copies of RNA or DNA targets in fast workflow** • **Stable and robust on crude and complex samples** • **Excellent for multiplex reactions**		
What is supplied	Kits include 2 classical components: qPCR mix and RT mix	Kit Include 2 glycerol-free components with excipients: qPCR mix and RT mix	Single glycerol-free component with excipients: blended qPCR and RT mix
Advantages over other formats	✓ Ready to use for cold-shipped kits ✓ Excellent for evaluation, R&D needs ✓ No need to optimize drying conditions ✓ No need for special drying equipment	✓ Excellent for ambient t.-stable kits ✓ Produce visible pellet/cakes ✓ Easy reconstitution of pellets ✓ Flexible to lyophilize different volumes	✓ Excellent for ambient t.-stable kits ✓ Simple, just air-dry in convection oven ✓ Fast, air-drying takes 60-90 minutes ✓ More economical than lyophilization
What to consider for this format	• Cold-chain shipment and refrigerated storage is not environmentally friendly	• Requires expensive equipment • Lyophilization may take several (5) days • Requires time and resources to optimize lyophilization, reconstitution and post reconstitution performance	• The pellet is gel-like, difficult to monitor the reconstitution • Works well only with small volume <10 µl • Requires time and resources to optimize drying, reconstitution and post reconstitution performance