

# Qscript Iyo 1-step

## Dry. Stable. Easy. Better. 1-step RT-qPCR

### FEATURES AND BENEFITS:



**Lyophilized Single Tube Format** – Easy-to-use, reduces cross-contamination



**High Sensitivity & Specificity** – Detect as low as 0.5 pg RNA



**Wide Dynamic Range** – 0.5 – 500 pg RNA



**Superior Multiplexing** – Plex up to 5 targets per reaction



**Eliminate Freezer Storage** – up to 9 months stability room temperature

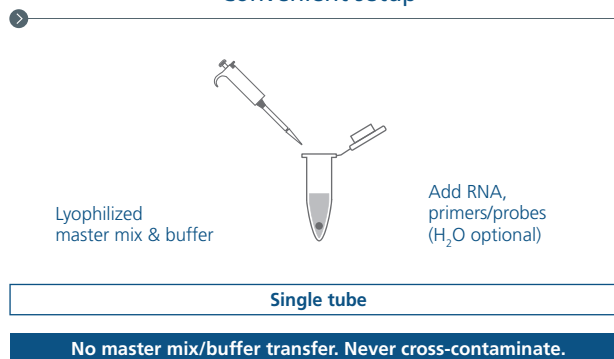
### DESCRIPTION:

Qscript Iyo 1-step is a lyophilized single-reaction reagent optimized for highly sensitive and reproducible one-step RT-qPCR using hydrolysis probes. The reagent contains a hot-start thermo-stable polymerase, a genetically engineered reverse transcriptase as well as other components to ensure higher performance detection of up to 5 targets with maximum sensitivity and specificity. The enhanced stability of the freeze-dried master mix enables convenient shipping and storage at room temperature. The single tube reaction facilitates easy reaction set up while preventing potential cross-contamination.



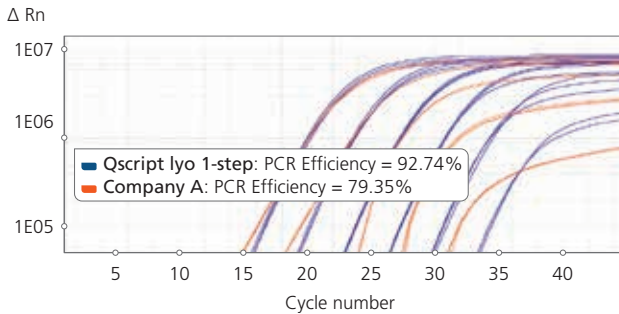
Qscript Iyo 1-step lyospheres.

### Convenient setup



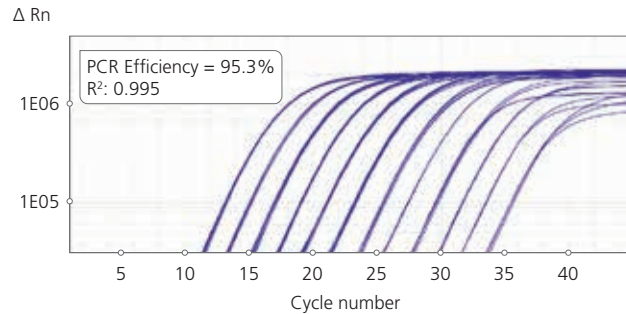
**Figure 1** Just add RNA, primers and probes.

## Better sensitivity enables greater detection



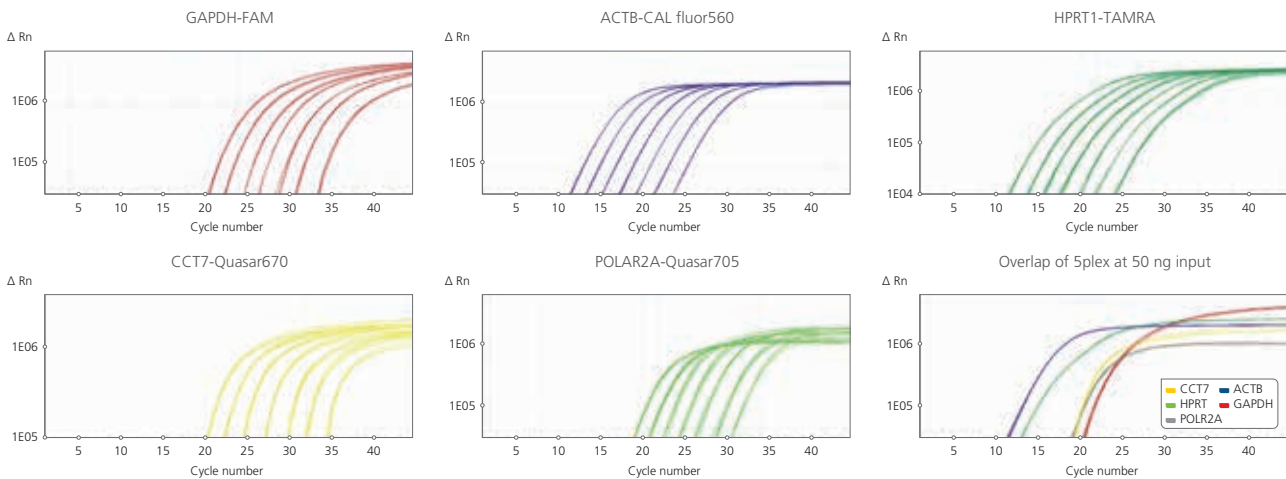
**Figure 2** Qscript lyo 1-step demonstrates higher sensitivity and fluorescence signal than a market-leading one-step RT-qPCR product (liquid). The figure shows a LDHA assay with 10-fold serial diluted universal human RNA (50 ng to 0.5 pg) as template. 20  $\mu$ l of LDHA primer/probe was used to resuspend each lysosphere, followed by addition of 5  $\mu$ l of RNA target. RT-qPCR was carried out on a QuantStudio 7 instrument with the following conditions: 50°C 15 min, 95°C 3 min, 40 cycles: 95°C 15 sec, 60°C 60 sec.

## High performance across a range of inputs



**Figure 3** Qscript lyo 1-step was tested with 12 serial dilutions of Human total RNA (4x from 1250 ng to 0.3 pg). 20  $\mu$ l of LDHA primer/probe was used to resuspend each lysosphere, followed by addition of 5  $\mu$ l of RNA target. RT-qPCR was carried out on a QuantStudio 7 instrument with the following conditions: 50°C 15 min, 95°C 3 min, 40 cycles: 95°C 15 sec, 60°C 60 sec.

## Multiplex up to 5 targets per assay



**Figure 4** Qscript lyo 1-step was tested with a 5-plex assay with 7 serial dilutions of Human total RNA (4x from 50 ng to 30 pg). 20  $\mu$ l of primers/probes was used to resuspend each lysosphere, followed by addition of 5  $\mu$ l of RNA target. RT-qPCR was carried out on a QuantStudio 7 instrument with the following conditions: 50°C 15 min, 95°C 3 min, 40 cycles: 95°C 15 sec, 60°C 60 sec.

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### ORDER INFO

#### Product Name

Qscript lyo 1-step - 8 R  
Qscript lyo 1-step - 24 R

#### Quantabio Catalog Number

95198-008  
95198-024

#### Size

8 rxns  
24 rxns

Quantabio products are intended for molecular biology applications. The products are not intended for the diagnosis, prevention or treatment of a disease.  
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