



ampliTune® 1-step RT-qPCR Probe Mix

Cat. No.	Pack Size
13100	ampliTune® 1-step RT-qPCR Probe Mix (100 rxn)
13500	ampliTune® 1-step RT-qPCR Probe Mix (500 rxn)

Description

ampliTune® 1-step RT-qPCR Probe Mix has been designed to deliver superior performance during cDNA synthesis and subsequent Taqman-based qPCR in a single tube for ultra-sensitive quantitative detection of RNA.

The product contains all components necessary to perform cDNA synthesis and probe-based qPCR – only template, primers and probe need to be added.

The 1-step design of RT-qPCR minimizes human errors, reduces the risk of contamination and the operation time of RT-qPCR.

A 10 min incubation step at 95°C inactivates reverse transcriptase, activates DNA polymerase and prevents primer dimer formation and non-specific amplification during qPCR.

Advantages

- ✓ Suitable for single and duplex assays
- ✓ Increased sensitivity for low copy number targets
- ✓ Compatible with ROX-dependent and ROX-independent qPCR cyclers

Storage & Shipping

Storage at -20°C, shipping on ice.

Content

ampliTune® 1-step RT-qPCR Probe Enzyme Mix (10X)
 1-step Probe RB (2X)
 Nuclease free water
 ROX L (50X)
 ROX H (50X)

ROX dye and normalization

ampliTune® 1-step RT-qPCR Probe Mix is provided with low ROX and high ROX dye in separate vials. ROX is an internal passive reference dye used to normalize the fluorescent reporter signal generated during qPCR.

Recommended RT-qPCR reaction mixture

Component	Volume	Final conc.
ampliTune® 1-step RT-qPCR Probe Enzyme Mix (10X)*	2 µl	1X
1-step Probe RB (2X)	10 µl	1X
Primer Forward (10 µM)	0.4-0.8 µl	0.2-0.4 µM
Primer Reverse (10 µM)	0.4-0.8 µl	0.2-0.4 µM
Probe	x µl	0.1-0.25 µM
RNA/mRNA* (max. 400 ng)	x µl	max. 20 ng/ µl
Optional ROX (50X)	0.4 µl	1X
Nuclease free water	up to 20 µl	
Total	20 µl	

* Probe Enzyme Mix and RNA/mRNA should be handled on ice

Recommended RT-qPCR cycles

Cycle step	Temp.	Time	Cycles
Reverse transcription	50 °C	10 min	1
Initial activation	95 °C	3 min	1
Denaturation	95 °C	15 s	} 40
Annealing/ Elongation	58 °C	30 s	

CERTIFICATE OF ANALYSIS

Free of endodeoxyribonucleases and exodeoxyribonucleases and phosphatases. No contaminating ribonuclease activity was detected.

Functional assay

ampliTune® 1-step RT-qPCR Probe Mix was tested for transcription and amplification of 75, 196 and 343 bp DNA fragments.

Quality authorized by: Mgr. Petra Mazancova, PhD. 

Product use limitation

This product is developed and supplied for research purposes and *in vitro* use only. Please refer to www.selectabiotech.com for Material Safety Data Sheet of the product.

Notice to purchaser

Some applications this product is used in may require a license/licenses from one or more third parties which are not provided by the purchase of this product. Users should obtain the license if required.

The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product in research conducted by the buyer. The buyer cannot sell or otherwise transfer (a) this product (b) its components or (c) materials made using this product or its components to a third party or otherwise use this product or its components or materials made using this product or its components for Commercial Purposes.

ampliTune® is a registered trademark of Selecta Biotech SE

Warranty and Disclaimer: This product shall comply with its relevant specification and be fit for its stated purpose, but Selecta Biotech gives no other warranty and makes no representation as to description or quality. Any such warranty or representation is excluded, to the fullest extent permitted by law. In particular, but without limiting the foregoing, Selecta Biotech shall not be liable for the failure of the product to comply with its relevant specification where such failure arises as a result of: (i) customer negligence or because the customer failed to follow any of the applicable technical data or safety sheets, standard user materials, use guidelines or any other information provided by Selecta Biotech as to the storage, transportation, handling, use or maintenance of the products or other good practice regarding the same, or (ii) the customer altering the products in any way without the prior written consent from Selecta Biotech, or (iii) the products differing from the relevant specification as a result of changes made to ensure their compliance with applicable statutory or regulatory requirements.

Nothing shall limit or exclude Selecta Biotech's liability for death or personal injury caused by its negligence, fraud or fraudulent misrepresentation or any matter in respect of which it would be unlawful for Selecta Biotech to exclude or restrict liability. Without limiting the foregoing, Selecta Biotech shall under no circumstances whatever be liable to the customer, whether in contract, tort (including negligence), breach of statutory duty, or otherwise, for any loss of profit, or any indirect or consequential loss arising under or in connection with the products and Selecta Biotech's total liability to the customer in respect of all other losses arising under or in connection with the product, whether in contract, tort (including negligence), breach of statutory duty, or otherwise, shall in no circumstances exceed the price of the products supplied in respect of which the liability has arisen.

Selecta Biotech SE

Istrijska 6094/20, 841 07 Bratislava, Slovakia

e-mail: info@selectabiotech.com, www.selectabiotech.com