



PCRBIO SYSTEMS
simplifying research

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UltraScript® Reverse Transcriptase (2500 U/μL)

Product description

UltraScript® Reverse Transcriptase (2500 U/μL) is a robust and thermostable modified MMLV reverse transcriptase (RTase) engineered for superior cDNA synthesis speed and yield from a wide range of RNA sample types. It can be used for both 1-step and 2-step RT-qPCR. The enzyme is suitable for lyophilisation purposes as the content of glycerol and detergents in the final mix would be below the incompatibility threshold.

The kit also includes a Glycerol-Free Enzyme Dilution Buffer which can be used for titration of UltraScript® RTase. The buffer is glycerol free, however it contains 1% non-ionic detergents. UltraScript® Reverse Transcriptase (2500 U/μL) is blended with an advanced RNase inhibitor to prevent degradation of RNA by contaminating RNase.

Important considerations

Performing a titration of UltraScript® Reverse Transcriptase (2500 U/μL) may be required to optimise its performance in the chosen reaction mix. We recommend using this product as a 3200x RTase (approx. 0.8 U/μL in the final reaction), using the provided Glycerol-Free Enzyme Dilution Buffer to titrate down the amount of UltraScript® RTase, if necessary.

A functional working concentration of non-ionic detergents will vary depending on the excipient(s) formulation that you choose to use in your final lyophilisation mix. Do not store or freeze the diluted enzyme.

Quality control

PCR Biosystems operates under an ISO 13485 certified Quality Management System. Our

Pack size	UltraScript® Reverse Transcriptase (2500 U/μL)	Glycerol-Free Enzyme Dilution Buffer
50000 units	1 x 10 μL	1 x 1.5 mL

products are extensively tested and undergo a comprehensive, multi-step quality control process according to ISO 13485 standards, to ensure optimum performance, consistency and traceability.

Shipping and storage

On arrival the kit should be stored between -30 °C and -20 °C. If stored correctly, the kit will retain full activity until the indicated expiry date. Avoid exposure of the stock solution to frequent temperature changes and limit handling at room temperature to the necessary minimum.

Technical support

Scan or click the QR codes for helpful cDNA synthesis tips and answers to frequently asked technical questions. For further technical support, please email technical@pcrbio.com with the following information:

- Amplicon size
- Reaction setup
- Cycling conditions
- Screen grabs of amplification traces and melting profile



TIPS & TRICKS



FAQS

Product Use: Unless we agree otherwise in writing, the Goods we supply are provided:

1. For research purposes only and you should not use or rely on the Goods for diagnostic purposes. If you wish to use the Goods in a regulatory approved medical device, please contact us so that we may consider this and discuss it further with you.
2. Subject to our standard terms and conditions found at <https://pcrbio.com/terms-conditions/>.