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simplifying research

## UltraScript Reverse Transcriptase (2500 U/μL)

[www.pcrbio.com](http://www.pcrbio.com)

### 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 highly concentrated, making it 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.

### Shipping and storage

On arrival the kit should be stored between -30 °C and -15 °C. If stored correctly the kit will retain full activity for 12 months. Avoid exposure of the components to frequent temperature changes and limit handling at room temperature to the necessary minimum.

### Product use

This product has been manufactured under an ISO 13485 certified Quality Management System and is suitable for further manufacturing use as a component, reagent or reagent assembly for molecular biology diagnostics.

Component	50 000 units
UltraScript Reverse Transcriptase (2500 U/μL) (with RNase Inhibitor)	1 x 20 μL
Glycerol-Free Enzyme Dilution Buffer	1 x 1.5 mL

### Technical support

Help and support is available on our website at <https://pcrbio.com/resources/> including answers to frequently asked technical questions. For technical support and troubleshooting please email [technical@pcrbio.com](mailto:technical@pcrbio.com) with the following information:

- Reaction setup
- PCR cycling conditions
- Screen grabs of gel images/real-time PCR traces

### 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.