

2x AuroraNovo Realtime PCR mix L

Product information:

2x AuroraNovo Realtime PCR mix L is a special product for real-time fluorescence quantitative PCR using SYBR Green I chimeric fluorescence method 2x concentration premix. Anti-Taq monoclonal antibody binds to the Taq enzyme and inhibits the polymerase activity of the Taq enzyme, thereby inhibiting nonspecific amplification caused by nonspecific hybridization of primer and template DNA or primer dimers that appear at low temperature. The anti-Taq monoclonal antibody was completely inactivated during the denaturation step of the first cycle of the PCR reaction, which did not hinder the subsequent Taq polymerase reaction and greatly increased the sensitivity and specificity of the PCR reaction.

Components	Cat.No.: A010-1	Cat. No.: AN010-2	Storage
2x AuroraNovo Realtime PCR mix L	5x 1ml	25x 1ml	-20°C, dark



This product is intended for use by trained laboratory personnel only. It is important to follow proper laboratory safety protocols when handling this product. This includes wearing appropriate protective eyewear, clothing, and gloves to reduce the risk of exposure. In the event of contact with skin or eyes, rinse immediately with copious amounts of water and seek medical attention if necessary.

Features:

This product is a 2x premixed quantitative PCR reaction system was used with the addition of only template, primers, and water to give a working concentration of 1x, Ready to carry out the reaction. It has the advantages of rapidity and simplicity, high sensitivity, high specificity, and good stability, which can minimize human error, save the operation time of PCR experiments, and reduce the chance of contamination.

Compatibility:

Rox dyes are used to correct for fluorescence signal errors generated between wells and wells of a quantitative PCR instrument and are generally used for real time PCR amplicons in ABI, stratagene, etc. The excitation optics vary for different instruments, so the concentration of Rox dye must match the corresponding fluorescence quantitative PCR instrument.

This product is suitable for instruments that require low Rox correction :

ABI Prism7500/7500 Fast, QuantStudio 3 System, QuantStudio 5 System, QuantStudio 6 Flex System, QuantStudio 7 Flex System, ViiA 7 system, Stratagene Mx3000/Mx3005P, Corbett Rotor Gene 3000 etc.

Applications:

Quantitive gene expression, detection of trace DNA.

Shipping and storage:

Upon receiving the product, store the product at suggested conditions. For long-term storage, place at - 20°C. Expiration date 24 months. Is frequently used and can be placed at 4°C for at least six months.

Recommended Protocol :

Prepare 20µl reaction mixture:

Components	Volume
2x AuroraNovo Realtime PCR mix	10µl
Primer Forward (10µM)	0.5µl
Primer Reverse (10µM)	0.5µl
DNA template	X µl
Nuclease-free water	Fill to 20µl

Suggested qPCR program (3-step cycle):

95°C	30sec.-1 min
35-40 cycles of:	
95°C	15 sec
55-64°C	15 sec
72°C	30-60 sec (data collection)

Melting curve analysis

*Generally extension times are 30 seconds for target fragments shorter than 300 bp, but a subset of instruments, to assay stable fluorescence, require extension times greater than 30 seconds. Amplification curves were scattered, or when there were large variations between wells, a longer extension time (45-60s) was set.

Notes:

1. Mix gently by inverting up and down before use, try to avoid foaming, and use after brief centrifugation.
2. Minimizing exposure time under light as much as possible, prolonged exposures can result in loss of fluorescent signal intensity. **This sample cannot be used for the hybridization probe method.**

Technical support:

If you have any questions or concerns, please don't hesitate to reach out to our support team at support@angneovo.no. Our knowledgeable and friendly team is available to assist you and ensure a positive experience with our product.

Disclaimer And Warranty:

This product is compliant with its relevant specifications and intended for its stated purpose. However, ANGENOVO AS does not provide any other warranty or guarantee regarding the product's description or quality. Any such warranties or guarantees are explicitly excluded to the fullest extent allowed by law. ANGENOVO AS will not be held liable for any special, incidental, indirect, multiple or consequential damages related to or arising from the use of this product. The liability of ANGENOVO AS will not be limited or excluded for death or personal injury caused by its negligence, fraud, or fraudulent misrepresentation or any matter where it would be illegal to exclude or restrict such liability.

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