



5x QPCR Mix EvaGreen[®] (ROX)

Data sheet

Order No. BS 76.580.0200	200 µl
Order No. BS 76.580.1000	1.000 µl
Order No. BS 76.580.5000	5.000 µl

(For research and *in vitro* applications only!)

Batch No.:

Best before:

Appearance: clear liquid

Colour: slightly orange-red

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5x QPCR Mix EvaGreen[®] (ROX)

Description

Bio&SELL 5x QPCR Mix EvaGreen[®] (Rox) is an optimized „ready-to-use“ solution for real-time applications, e.g. quantitative PCR, that require EvaGreen[®] or SYBR[®] Green as a dye as well as an internal reference dye (Rox). It contains all necessary components for quantitative PCR, except for template DNA and primer.

Composition of 5x QPCR Mix EvaGreen[®] (Rox):

- Bio&SELL Hot-Start Taq-DNA polymerase
- 5x EvaGreen[®] QPCR reaction buffer
- 12,5 mM MgCl₂ (= 2,5 mM in 1x solution)
- dATP, dGTP, dCCT and dTTP in optimized composition (the use of dTTP improves reaction sensitivity and efficiency compared to dUTP)
- EvaGreen[®] dye
- **ROX dye**

Applications:

- Detection and quantification of DNA and cDNA targets
- Profiling gene expression
- Microbial Detection
- Viral load determination

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EvaGreen® dye:

EvaGreen® is a DNA-binding dye with many features that make it a **superior alternative** to SYBR® Green I for quantitative PCR. Apart from having similar spectra, EvaGreen® has three important features that set it apart from SYBR® Green I: **EvaGreen® has much less PCR inhibition, is an extremely stable dye and has been shown to be nonmutagenic and noncytotoxic. EvaGreen® is compatible with all common real-time PCR cyclers – simply select the standard settings for SYBR® Green or FAM!**

Rox dye:

ROX is a passive internal reference dye that is used for normalization of the fluorescent reporter signal during QPCR. The final concentration of ROX dye in the reaction mixture is 500 nM.

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Cycler compatibility:

Bio&SELL 5x QPCR Mix EvaGreen[®] (Rox) is compatible to real-time cyclers requiring a reference dye:

- ABI PRISM[®] 5700, 7000, 7300, 7500, 7700, 7900, 7900HT (incl. Fast-Block),
- StepOneTM, StepOneTM Plus
- Stratagene Mx3000PTM, Mx3005PTM und Mx4000[®]

Recommended pipetting protocol

The single components should be pipetted as follows (here for 20 µl end volume):

Component	Volume	Final concentration
5x QPCR Mix EvaGreen [®] (Rox)	4 µl	1x
Primer 1	x µl	80 – 250 nM
Primer 2	x µl	80 – 250 nM
Template-DNA	x µl	1 – 50 ng/µl
Water	Fill up to 20 µl	

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Recommended PCR protocol

Cycle step	Temperature	Time	Number of cycles
Initial Incubation	95°C	15 min	1x
Denaturation	95°C	15 sec	40x
Annealing	60-65 °C	20 sec	
Elongation	72°C	20 sec	

Note!

To activate the polymerase in the 5x QPCR Mix EvaGreen[®] (Rox), include an incubation step for 15 minutes at 95°C at the beginning of the qPCR cycle.

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Technical Data

Source: the original form is the thermostable DNA polymerase isolated from the thermophilic bacterium *Thermus aquaticus*. The present enzyme is recombinantly expressed in *E. coli*. Hot-start Taq DNA polymerase is activated by incubation at 95 ° C over a period of 15 minutes. As a result the non-specific binding of primers and the formation of primer dimers at low temperatures is prevented at the start of PCR.

Enzyme activities: Hotstart Taq DNA polymerase is a highly processive 5' → 3' DNA polymerase having 5' → 3' exonuclease activity. A 3' → 5' exonuclease activity is missing completely. In addition, the enzyme adds individual nucleotides (adenosine almost exclusively), so that a TA cloning without any further modifications is possible to the 3' ends of the DNAs.

Shipment: at room temperature

Storage: at -20 °Celsius
Storage at room temperature for up to 1 month has no detrimental effects on the quality of the QPCR Mix EvaGreen® (Rox)

Safety warning: This product and its components should be handled only by persons trained in laboratory techniques. It is advisable to wear suitable protective clothing, such as laboratory overalls, gloves and safety glasses. Care should be taken to avoid contact with skin or eyes. In case of contact with skin or eyes, wash immediately with water.

Some applications this product is used in may require a license which is not provided by the purchase of this product. Users should obtain the license if required

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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, where such research does not include testing, analysis or screening services for any third party in return for compensation on a per test basis. 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.

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Other products that may interest you

Bio&SELL Universal Agarose

Bio&SELL Universal Agarose is a cost-saving standard agarose ideal for analytical and preparative separation of nucleic acids in the range of 0,05 -50 kbp.

500g for only 189 EUR plus MwSt.

Bio&SELL Low Melt Agarose

Bio&SELL Low Melt Agarose is a high-quality agarose with a relatively low melting point, ideal for the separation of nucleic acids in the range of 0,8 – 25 kbp. Due to its high-resolution capabilities it is suitable for all preparative gel electrophoresis.

25g for 94,90 EUR plus MwSt.

Bio&SELL High-definition Agarose

Bio&SELL High-definition agarose as an alternative to labor-intensive, expensive polyacrylamid gels. It is optimized for the separation of nucleic acids in the range of 20bp – 800bp.

25g for 81,90 EUR plus MwSt.



**The agaroses with the
best price-performance
ratio:**

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