

Titan HotTaq EvaGreen® qPCR Capillary Mix - Data Sheet

Cat. No.	Pack Size
BTS0017	200 µl (50 reactions)
BT11103	1 ml (250 reactions)

Lot no:

Exp. Date:

Storage: -20 °C

Shipping and temporary storage for up to 1 month at room temperature has no detrimental effects on the quality of Titan HotTaq EvaGreen® qPCR Capillary Mix.

Reagents Provided:

- Titan HotTaq DNA polymerase
- 5 x qPCR buffer E
- 12.5 mM MgCl₂
1 x PCR solution – 2.5 mM MgCl₂
- dNTPs, including dTTP to improve reaction sensitivity and efficiency
- EvaGreen® dye
- BSA

Description:

Titan HotTaq EvaGreen® qPCR Capillary Mix is optimized for real-time quantitative PCR assays. The ready-to-load mix includes Titan HotTaq DNA polymerase, ultrapure dNTPs, MgCl₂, and EvaGreen® dye. Only water, template and primers needs to be added.

Titan HotTaq DNA polymerase is activated by a 15 min incubation step at 95°C. This prevents extension of non-specifically annealed primers and primer-dimers formed at low temperatures during qPCR setup.

Application:

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

EvaGreen® Dye:

EvaGreen® is a DNA-binding dye for qPCR that, compared to SYBR® Green I, has similar spectra but much less PCR inhibition. It is extremely stable 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!

Recommended PCR reaction mix:

Component	Volume	Final conc.
5 x Titan HotTaq EvaGreen® qPCR Mix	4 µl	1x
Primer Forward (10 pmol/µl)	0.16-0.5 µl	80-250 nM
Primer Reverse (10 pmol/µl)	0.16-0.5 µl	80-250 nM
DNA template	1-5 µl	1-50 ng/µl
H ₂ O PCR grade	up to 20 µl	
Total	20 µl	

Recommended PCR cycles:

Cycle step	Temp.	Time	Cycles
Initial denaturation	95°C	15 min	1
Denaturation	95°C	15 s	40
Annealing	60°-65°C	20 s	
Elongation	72°C	20 s	

IMPORTANT: To activate the polymerase, include an incubation step **at 95°C for 15 minutes** at the beginning of the qPCR cycle.

Safety warnings and precautions:

This product is designed for research purposes and *in vitro* use only. According to common laboratory safety practice, it is recommended to wear protective clothing, gloves and safety glasses. Please refer to www.bioatlas.com for Material Safety Data Sheet of the product.

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.

EvaGreen® is a registered trademark and licensed for sale by Biotium, Inc., Hayward, CA, USA.

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.

SYBR® is a registered trademark of Molecular Probes, Inc.