

4x GC Buffer I (6 mM MgCl₂)

MADE IN DENMARK



Cat. No.: A301703

A301703

-	4x GC Buffer I
ID No.	5100710
Cap Colour	Purple
Content	3 x 1.5 ml

Features and General Description

Ampliqon offers a product series specifically developed for the amplification of GC-rich DNA sequences. The Ampliqon TEMPase Hot Start DNA Polymerase combined with GC Buffer I and GC Buffer II promote excellent amplification results with targets of varying degrees of GC content.

We recommend to use 4x GC Buffer I with Ampliqon TEMPase Hot Start DNA Polymerase. The GC Buffers in combination with Ampliqon TEMPase Hot Start DNA Polymerase and the heat activation step result in a high success rate in amplification of DNA targets with high GC content.

Recommended Storage and Stability

Long term storage at -20 °C. Product expiry at -20 °C is stated on the label.

Option: Store at +4 °C for up to 6 months.

Quality Control

The product is tested in a PCR targeting a GC-rich region from human genomic DNA and must yield a specific product band of the correct size.

Kit Components

4x GC Buffer I

Optimized buffer components, 6 mM MgCl₂ (1.5 mM final concentration).

Related Products

Hot Start DNA Polymerase (500 units) *	Cat. No.
TEMPase Hot Start DNA Polymerase, 5 U/μl	A220003
• with 10x Ammonium Buffer	A221103

*Available in kits including one or two buffers (Ammonium Buffer, Standard Buffer or Combination Buffer). All kits include extra 25 mM MgCl₂.

GC-rich DNA Amplification	Cat. No.
GC-rich DNA Target Kit*	A227103
2x GC TEMPase 2x Master Mix I, 10 x 1.5 ml	A331703
2x GC TEMPase 2x Master Mix II, 10 x 1.5 ml	A332703

*Kit including TEMPase Polymerase 5 U/μl with GC Buffer I, GC Buffer II and MgCl₂.

Buffers for DNA Polymerases *	Cat. No.
10x Ammonium Buffer, 3 x 1.5 ml	A301103
10x Standard Buffer, 3 x 1.5 ml	A302103
10x Combination Buffer, 3 x 1.5 ml	A303103
5x PCR Buffer RED, 6 x 1,5 ml **	A301810
4x GC Buffer I, 3 x 1.5 ml	A301703
4x GC Buffer II, 3 x 1.5 ml	A302703

*Ammonium Buffer, Standard Buffer and Combination Buffer are also available as Mg²⁺ free buffers, detergent free buffers and Mg²⁺ and detergent free buffers.

**For direct gel loading and visualisation.

Ultrapure dNTPs*	Cat. No.
dNTP Mix 40 mM (2 x 500 μl): 10 mM each dA, dC, dG, dT	A502004
dNTP Set, 100 mM each: 250 μl of each dA, dC, dG and dT	A511104

*Other concentrations and Single dNTPs are available.

Loading Buffers, PCR Water and Ladders	Cat. No.
5x Loading Buffer Red *, 5 x 1 ml	A608104
lqon PCR Ladder **, 100 – 3000 bp, 1 x 0.5 ml	A610341
PCR Grade Water, 6 x 5 ml	A360056

* Also available with Blue, Orange or Cyan. ** Available in different size ranges.

For Research Use Only. Not for use in diagnostics procedures.

Other product sizes, combinations and customized solutions are available. Please look at www.ampliqon.com or ask for our complete product list for PCR Enzymes. For customized solutions please contact us.

Made in Denmark
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