

## 5x PCR Buffer RED (7.5 mM MgCl<sub>2</sub>)



A301803

MADE IN DENMARK

Cat. No.: A301803

-	5x PCR Buffer RED, 7.5 mM MgCl <sub>2</sub>
ID No.	5100100
Cap colour	Black
A301803	3 x 1.5 ml

### Key Features

The 5x PCR Buffer RED is applicable with both Ampliqon Taq DNA Polymerase and Ampliqon TEMPase DNA Polymerase. The buffer consists of the Ampliqon Ammonium Buffer, a red tracking dye and a density agent. Thus, when the PCR is finished, PCR products can be directly loaded onto a DNA gel for gel electrophoresis and subsequent visualization. There is no need to buy and use separate loading buffers. The red dye front runs at 1000 – 2000 bp on a 0.5 – 1.5 % agarose gel.

The red dye of 5x PCR Buffer RED may interfere with downstream applications that apply absorbance- or fluorescence measurements. However, treatment with PCR clean up PureIT ExoZAP and/or spin columns followed by DNA sequencing is compatible with 5x PCR Buffer RED.

### Recommended Storage and Stability

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

### Quality Control

5x PCR Buffer RED is both functionally tested and tested for contamination with human genomic DNA.

### Composition of the 5x PCR Buffer RED

- Tris-HCl pH 8.5, (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>, 7.5 mM MgCl<sub>2</sub>, 0.5 % Tween® 20
- Red tracking dye
- Density agent

### Related Products

Taq DNA Polymerase (500 units) *	Cat. No.
Taq DNA Polymerase 5 U/μl	A110003
• with 10x Ammonium Buffer	A111103
• 5x PCR Buffer RED	A111803
Taq DNA Polymerase 5 U/μl, RED	A200003
• with 10x Ammonium Buffer	A201103
Taq DNA Polymerase 5 U/μl, glycerol free	A100003
• with 10x Ammonium Buffer	A101103

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 MgCl<sub>2</sub>.

PureIT ExoZAP PCR CleanUp	Cat. No.
• 100 reactions	A620601
• 500 reactions	A620603
• 2500 reactions	A620606
• 5000 reactions	A620607

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 Mg<sup>2+</sup> free buffers, detergent free buffers and Mg<sup>2+</sup> 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](http://www.ampliqon.com) or ask for our complete product list for PCR Enzymes. For customized solutions please contact us.

Made in Denmark  
Issued 08/2021