

Insert P/N 4376115 REV B
 Printed in USA

 GeneAmp® 10X PCR Buffer II and MgCl₂ 1.5 mL
 GeneAmp® 10X PCR Buffer II and MgCl₂ 6 x 1.5 mL
 GeneAmp® 10X PCR Buffer II and MgCl₂ 2 x 75 mL

 P/N: N8080010
 P/N: N8080130
 P/N: 4379878

Buffer Characteristics

GeneAmp 10X PCR Buffer II provides preferred pH and ionic strength for PCR amplification reactions. The magnesium ion concentration required to achieve optimal PCR amplification is dependent on the specific set of primers and template used. A 25 mM MgCl₂ Solution is supplied separately so that the magnesium ion concentration of the 10X PCR Buffer II can be adjusted to achieve optimal PCR amplification for any set of primer-template pairs. This product should be used with AmpliTaq® DNA Polymerase and AmpliTaq Gold® DNA Polymerase.

List of Components

<u>Component</u>	<u>Description</u>
10X PCR Buffer II	100 mM Tris-HCl, pH 8.3 (at 25 °C); 500 mM KCl
MgCl ₂ Solution	25 mM MgCl ₂

All solutions are in autoclaved, deionized, ultrafiltered water. When stored at –20 °C in a constant temperature freezer, this product will maintain performance until the control date on the tube or bottle label. Before use, thaw frozen components to room temperature and mix well by vortexing.

For 75 mL Bottles Only

To prepare convenient-size aliquot:

1.	Autoclave 2 mL polypropylene microcentrifuge screwcapped tubes or 1.5 mL polypropylene microcentrifuge tubes) at 121 °C for 20 minutes. Note: Up to 75 tubes (1.0 mL fill) can be filled from the stock bottle.
2.	Pipette 1.5 mL into 2.0 mL polypropylene microcentrifuge screwcapped tubes or 1.0 mL into 1.5 mL polypropylene microcentrifuge flip-top tubes.
3.	Use aseptic techniques (with gloves and sterile pipette tips) to aliquot the buffer into each of the tubes, capping each one as it is filled.
4.	Store the tubes upright in a rack in a –20 °C constant temperature freezer.

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