

AmpliTaq Gold® 360 Buffer, 10X Kit

Insert PN 4398172 Rev. B

Product list

Product	Storage	Part number
AmpliTaq Gold® 360 Buffer, 10X (1.5 mL), 25 mM Magnesium Chloride, 360 GC Enhancer	On receipt, store at –15 to –25 °C.	4398853
AmpliTaq Gold 360 Buffer, 10X (6 × 1.5 mL), 25 mM Magnesium Chloride, 360 GC Enhancer		4398863
AmpliTaq Gold 360 Buffer, 10X (150 mL), 25 mM Magnesium Chloride, 360 GC Enhancer		4398872

Note: For safety and biohazard guidelines, refer to the “Safety” section in the *AmpliTaq Gold® 360 DNA Polymerase Protocol* (PN 4398943). For all chemicals, read the Safety Data Sheet (SDS) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves.

AmpliTaq® and AmpliTaq Gold® 360 DNA Polymerases ship at room temperature. Please note that if these enzymes are shipped with temperature sensitive products the entire shipment may be received on ice. Visit <http://www.appliedbiosystems.com/360wp> to review our stability studies and read more about the environmental impact of this change.

Reagent characteristics

The AmpliTaq Gold® 360 Buffer, 10X activates AmpliTaq Gold® 360 DNA Polymerase resulting in highly specific, robust PCR amplification. The ionic strength and the pH of AmpliTaq Gold 360 Buffer, 10X are optimized for use with the AmpliTaq Gold 360 DNA Polymerase. The magnesium ion concentration that is required for optimal PCR amplification depends on the specific set of primers and template that are used. The 360 GC Enhancer is used for difficult templates, especially for templates with high GC content.

For detailed procedures, refer to the *AmpliTaq Gold® 360 DNA Polymerase Protocol* (PN 4398943).

List of components

Item	Available packaging		
	PN 4398853	PN 4398863	PN 4398872
AmpliTaq Gold® 360 Buffer, 10X	1 × 1.5 mL	6 × 1.5 mL	1 × 150 mL
25 mM Magnesium Chloride	1 × 1.5 mL	6 × 1.5 mL	1 × 150 mL
360 GC Enhancer	1 × 1.5 mL	6 × 1.5 mL	1 × 120 mL

All solutions are prepared in deionized, filter-sterilized water. When stored at –15 to –25 °C, this product maintains performance at least until the expiration date on the tube label. Before use, thaw frozen components to room temperature and mix well.

For 120-mL and 150-mL bottles only

To prepare conveniently sized aliquots:

1. Use pre-sterilized or autoclaved 2-mL polypropylene microcentrifuge screw-capped tubes or 1.5-mL polypropylene microcentrifuge flip-top tubes. If autoclaving tubes, autoclave at 121 °C for 20 minutes.

Note: Up to 120 or 150 tubes (1.0 mL per tube) can be filled from the stock bottle.

2. Pipette 1.5 mL into the 2.0-mL microcentrifuge tubes or 1.0 mL into the 1.5-mL microcentrifuge 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 at –15 to –25 °C.

For Research Use Only. Not intended for any animal or human therapeutic or diagnostic use.

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