

# MeanGreen™ Buffer

Enzymes and Reagents

PCR | qPCR | RT | Kits | Oligonucleotides

**Empirical's 5X MeanGreen™ Buffer** is supplied as a 5X reaction buffer with 7.5mM MgCl<sub>2</sub>. 5X MeanGreen™ Buffer contains loading dyes (blue ~4kb and yellow <25bp) that make monitoring process during electrophoresis easy, and a density agent that allows reactions to be loaded directly onto agarose gels. These dyes do not obscure visualization of reactions, as the bands run outside most products.

Component	Volume	Final Concentration
5X MeanGreen™ Buffer	10 µl	1X
Upstream Primer, 10µM	0.5-5.0 µl	0.1-1.0µM
Downstream Primer, 10µM	0.5-5.0 µl	0.1-1.0µM
dNTP solution, 10mM	1 µl	0.2mM
DNA Polymerase	1-5 µl	0.25 – 5U
DNA Template	1-5 µl	<250ng
Nuclease Free Water to	50 µl	N.A.

**Reaction set-up:** The following general reaction set up is recommended but can vary depending on the enzyme, template and primers being used.  
Ordering Information:

**Storage and Handling:**  
Store at - 20°C upon arrival.



**TO ORDER, REQUEST SAMPLES OR FOR MORE INFORMATION, CONTACT:**  
Empirical Bioscience, Inc. | 2007 Eastcastle Drive SE  
Grand Rapids, MI 49508 | Phone/Fax: 877.479.9949  
Email: [sales@empiricalbioscience.com](mailto:sales@empiricalbioscience.com)  
[empiricalbioscience.com](http://empiricalbioscience.com)