PRODUCT INFORMATION

Thermo Scientific Phusion Green GC Buffer Pack

Pub. No. MAN0016313
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Store at -25 °C to -15 °C

Ordering information

Component	#F-539L
5X Phusion Green GC Buffer	4 × 1.5 mL
50 mM $MgCl_2$	2 × 1.5 mL
100 % DMSO	0.5 mL

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

Description

Thermo Scientific™ Phusion™ Green GC Buffer is a buffer solution optimized for GC-rich DNA amplification using Phusion High-Fidelity DNA polymerases. The buffer contains 7.5 mM $MgCl_2$ which provides 1.5 mM $MgCl_2$ in final reaction conditions. In addition the buffer includes a density reagent and two tracking dyes. The density reagent allows direct loading of PCR products on a gel. The blue dye (migrates with 3-5 kb DNA fragments in 1% agarose gel) and the yellow dye (migrates faster than 10 bp DNA fragments in 1% agarose gel) are included for monitoring electrophoresis progress. The dyes have excitation peaks at 424 nm and 615 nm. For applications that require PCR product analysis by absorbance or fluorescence excitation, we recommend using the colorless 5X Phusion GC Buffer (#F-519L) or purifying the PCR product using the Thermo Scientific™ GeneJET™ PCR Purification Kit (#K0701) prior to analysis.

Important Notes

- Repeated freezing and thawing of the buffer can result in the precipitation or accumulation of $MgCl_2$ in insoluble form. For consistent results heat the buffer to 90 °C for 10 min and vortex prior to use if needed or store refrigerated.
- The freezing point of DMSO is 18-19 °C, so it does not melt on ice.

Important Licensing Information:
This product may be covered by one or more Limited Use Label Licenses. By use of this product, you accept the terms and conditions of all applicable Limited Use Label Licenses.

PRODUCT USE LIMITATION

This product has been developed and is sold exclusively for research purposes and in vitro use only. This product has not been tested for use in diagnostics or drug development, nor are they suitable for administration to humans or animals. Please refer to www.thermofisher.com for Material Safety Data Sheet of the product.