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MilliporeSigma

ROCHE FastStart™ High Fidelity PCR System, dNTPack

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Description

Storage: -20°C

UNSPSC Code: 12352200

Components: FastStart High Fidelity Enzyme Blend, in storage buffer 5 U/μl; FastStart High Fidelity Reaction Buffer, with 18 mM MgCl₂ 10x concentrated; FastStart High Fidelity Reaction Buffer, without MgCl₂ 10x concentrated; MgCl₂ Stock Solution 25 mM; DMSO; PCR Nucleotide Mix

RIDADR: NONH for all modes of transport

Features and Benefits:

- **Achieve excellent multiplex performance:** For fast high quality results, also use Roche's PCR Optimization Kit.



- **Increase fidelity:** Achieve fourfold higher fidelity compared to Taq DNA Polymerase and FastStart Taq DNA Polymerase.
- **Amplify challenging DNA:** DMSO, a PCR additive, for working with difficult templates, is supplied.
- **Cost-effective:** Use the convenient premixed solution of PCR grade dNTPs.

Application:

The FastStart® High Fidelity PCR System – an optimized enzyme blend for hot start PCR – combines all the benefits of FastStart Taq DNA Polymerase with fourfold higher accuracy and the ability to amplify fragments up to 5kb.

- Hot start PCR
- Multiplex PCR
- Hot Start RT-PCR
- GC-rich template amplification
- Difficult or challenging PCRs

The FastStart High Fidelity PCR System is the product of choice for multiplex PCR.

General description:

The enzyme dNTPack comprises the FastStart High Fidelity PCR System and a ready-to-use solution of PCR grade nucleotides. The FastStart High Fidelity PCR System is a blend of FastStart Taq DNA Polymerase and a thermostable proofreading protein, which is also chemically modified. This protein mediates proofreading activity, but carries no polymerase activity. Both proteins are inactive below +75°C and are activated by heating to +95°C for two minutes. The FastStart® High Fidelity PCR System is the ideal tool for all amplification experiments where a combination of high specificity, sensitivity, accuracy, and yield is needed. Hot start protocols have improved specificity, sensitivity, and PCR yield. Heat-labile blocking groups on amino acid residues of FastStart Taq DNA Polymerase make the enzyme inactive at room temperature. There is no elongation at low temperatures when primers bind nonspecifically.

Other Notes:

For life science research only. Not for use in diagnostic procedures.

Quality:

Each lot is PCR function-tested using human genomic DNA and primers specific for a 1.8 kb fragment of the EPO gene, and primers specific for a 4.8 kb fragment of the tPA gene.

Preparation Note:

Working concentration: For a standard 50 µl PCR, we recommend using 2.5 U of the enzyme blend.

Legal Information:
FastStart is a trademark of Roche

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PRODUCT DETAIL

C756V02 Mfr. No. 4738284001 Description FastStart™ High Fidelity PCR System, dNTPack, pkg of 125 U	List Price/Quantity \$144.84 /EA (1/EA) 0	Total \$0.00
C756V03 Mfr. No. 4738292001 Description FastStart™ High Fidelity PCR System, dNTPack, 500 U	List Price/Quantity \$545.70 /EA (1/EA) 0	Total \$0.00

\$0.00 (0 Items)

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May we suggest



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TSA with LTHThio cont.-ICR+

Application: Environmental monitoring for isolators & clean rooms (surface and air monitoring), Detection of fungi and bacteria
Packaging: 55 mm contact plate with safety lock (20 or 200 plates per box)
Synonym: TSA, CASO Agar, Casein Soybean Digest Agar with Lecithin, Tween, Histidin and...



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TSA w. LTHTh - LI 30ml

Application: Environmental monitoring, Active or passive air monitoring, Fingerprint, Total count of fungi and bacteria
Packaging: 90 mm settle plate (120 plates per box) for long incubation
Synonym: CASO Agar, Casein Soybean Digest Agar with neutralizer, Tryptic Soy Agar with Lecithin, Tween,...



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Potassium phosphate monobasic, analytical specific Ph. Eur., NF, E300 drous, 98-100.5 to the dried sul

Synonyms: Monophosphate; Potassium dihydrogen phosphate; Potassium phosphate
Formula: KH_2PO_4
Weight: 136.09 CA
7778-77-0 Purity: 99.9% (calc. to the dried
Density: 2.338 g/cm³ °C(lit.)



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