

DNA Amplification

Reagents - PCR kits and Master mixes

PCR* kits, exACTGene™



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- Provides clean and consistent PCR* yields from 6kb to 10kb
- Generate reliable PCR* products using all genomic and cDNA templates
- Excellent yield and specificity for all PCR* applications

Superior performance and reliability for routine PCR*. Use the exACTGene™ complete PCR* kit for the full benefits of the exACTGene™ system.

exACTGene™ PCR* kits

The exACTGene™ complete PCR* kit and core reagent sets provide all of the reagents you need to perform reliable routine PCR*. Robust *Taq* DNA polymerase, ultra pure nucleotides and optimised buffers in both the kit and sets provide superior PCR* yield and specificity.

Complete Kit Includes:

A set of positive controls (500bp and 6kb) are provided for troubleshooting PCR* parameters.

A unique colour coding scheme for reagent tubes designed for ease-of-use.

Extra flexibility is provided by including separate tubes of buffer a (with Mg²⁺), buffer b (without Mg²⁺), and MgCl₂ solution.

Catalogue No	Description	Size, Units
FBE6100	exACTGene™ complete PCR kit, 200 reactions (250U <i>Taq</i> , buffer A, buffer B, MgCl ₂ , dNTPs, 3 control primers, and DNA template)	200 reactions (250U <i>Taq</i> , buffer A, buffer B, MgCl ₂ , dNTPs, 3 control primers, and DNA template)
FBE6225	exACTGene™ PCR core reagents A	80 reactions (<i>Taq</i> , buffer A, and dNTP's)
FBE6210	exACTGene™ PCR core reagents A	400 reactions (<i>Taq</i> , buffer A, and dNTP's)
FBE6245	exACTGene™ PCR core reagents B	80 reactions (<i>Taq</i> , buffer B, MgCl ₂ , and dNTP's)
FBE6260	exACTGene™ PCR core reagents B	400 reactions (<i>Taq</i> , buffer B, MgCl ₂ , dNTP's)

exACTGene™ individual kit components

Catalogue No	Description	Size, Units
FBE6111	<i>Taq</i> polymerase (5U/μL)	250U (54/μL)
BPE6112	10X buffer A (15mM MgCl ₂)	1mL
BPE6113	10X buffer B (no MgCl ₂)	1mL
BPE6114	MgCl ₂	1mL, 25mM
BPE6115	exACTgene Nucleotide mix(10mM)	10mM, each dNTP, 200μL
BPE6116	Control DNA template	1ng/μL, 100μL
BPE6117	Control primer 1	100μL
BPE6118	Control primer 3	100μL

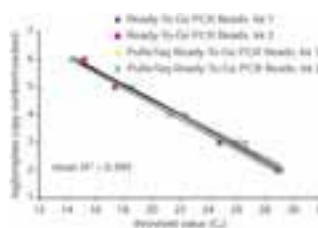
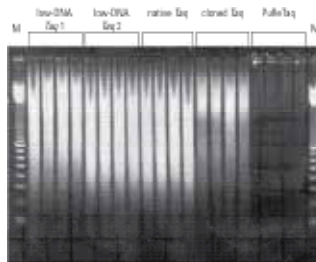
*Polymerase Chain Reaction (PCR) is a process covered by patents owned by Hoffman-La Roche

illustra PuReTaq ready-to-go PCR beads



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illustra PuReTaq ready-to-go PCR beads are designed for performing standard PCR, the only additional reagents required are water, template DNA and primers.



- Premixed, predisposed reactions for PCR featuring high-performance PuReTaq DNA polymerase
- Single dose, ambient temperature stable beads ensure greater reproducibility between reactions, minimise pipetting steps and reduce the potential for pipetting errors and contamination
- Use of PuReTaq DNA polymerase and other high-purity reagents ensures that each bead is free of contaminating DNA
- Optimised for standard PCR, each bead yields a reaction containing ~2.5 units of PuReTaq DNA polymerase, 10mM Tris-HCl, (pH 9.0 at room temperature), 50mM KCl, 1.5mM MgCl₂, 200μM of each dNTP, stabilisers, and BSA
- Validated for real time PCR with MGB Eclipse probe systems

The beads are provided in either 0.5mL or 0.2mL tubes that are compatible with most thermal cyclers.

The 0.2mL tubes come assembled in a 96 well (8 x 12) plate format that allows individual strips of eight tubes to be easily removed. This flexibility allows use of either the entire 96 well plate, strips of eight, or individual 0.2mL tubes.

Catalogue No	Description	Quantity
GZ27955701	illustra PuReTaq ready-to-go PCR beads (0.2mL tubes/plate)	96 reactions
GZ27955702	illustra PuReTaq ready-to-go PCR beads (0.2mL tubes/plate)	5 x 96 reactions
GZ27955801	illustra PuReTaq ready-to-go PCR beads (0.5mL tubes)	100 reactions

AccuPrime™ Pfx SuperMix



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Ideal for high-fidelity, high-specificity amplification of DNA fragments for applications such as cloning and mutagenesis.

High fidelity is provided by a proprietary enzyme preparation containing recombinant DNA polymerase from *Thermococcus* species KOD with proofreading activity. Thermostable AccuPrime™ proteins enhance primer-template hybridisation during every cycle, increasing specificity and yield. With AccuPrime™ Pfx SuperMix you'll:

- Achieve >26-times higher fidelity than Taq DNA polymerase
- Amplify fragments up to 12 kb
- Minimise PCR optimization
- Produce products with blunt ends

Catalogue No	Reactions per pack
VX12344040	200