

Now available through Fisher Scientific

# illustra™ Ready-To-Go™ PCR Beads

Preformulated Ready-To-Go Beads give you the assurance of reliable PCR assays in a convenient bead format. Each bead contains all the reagents for PCR or RT-PCR, stabilized for storage at room temperature. Just add template and primers to the bead, and then follow your normal thermocycling protocol.

- **Stable at room temperature for up to 2 years**  
— Easy to transport and will not take up valuable freezer space
- **Pre-dispensed reactions**  
— Means no more master mixes to make up or aliquot. Reduces hands-on time and minimizes risk of contamination or error

**Available in multiple formats for different PCR applications:**

- **PuReTaq™ Ready-To-Go PCR Beads**  
— For standard PCR applications
- **Hot Start Mix RTG**  
— Uses a novel primer sequestration method for hot start PCR applications
- **Ready-To-Go RT-PCR Beads**  
— For amplification via reverse transcription of RNA templates



## PuReTaq Ready-To-Go PCR Beads for standard PCR

- Optimized for standard PCR, when reconstituted, each bead contains: 2.5 units of PuReTaq DNA polymerase, 10 mM TrisHCl (pH 9), 50 mM KCl, 1.5 mM MgCl<sub>2</sub>, 200 μM of each dNTP, stabilizers, and BSA.
- Uses high purity reagents, including recombinant Taq DNA polymerase, to ensure each bead is free of contaminating DNA.
- Each batch is functionally tested.

## Hot Start Mix RTG for PCR high specificity amplification

- Novel hot start method (primer sequestration) inhibits primer-dimer formation to maximize target amplification efficiency.
- Mix does not contain antibodies, eliminating risk of mammalian-source contamination.
- No chemical inactivation, eliminates need for extensive heating step and reduces the chance of heat-induced depurination of DNA.
- Highest specificity in sequence amplification for greater confidence in downstream applications.

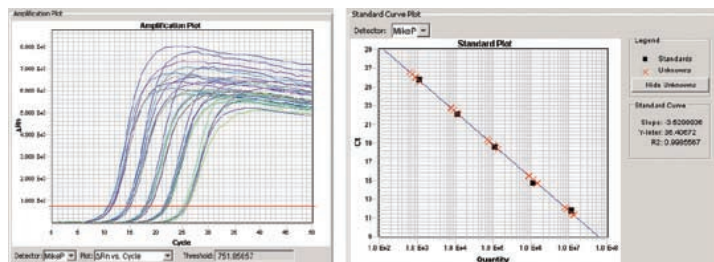
## Ready-To-Go RT-PCR Beads for amplification from RNA template

- Optimized one-tube, one-step reactions for both cDNA synthesis and PCR means there is no need to open the tube or change conditions between steps.
- A reduced number of pipetting steps minimizes risk of contamination and RNA degradation, improving assay reproducibility.
- Each lot is functionally tested for the ability to generate highly specific PCR products to ensure lot-to-lot reproducibility.
- When reconstituted, each bead contains 2 units of PuReTaq DNA polymerase, M-MuLV Reverse Transcriptase, RNase inhibitor, 10 mM TrisHCl (pH9), 60 mM KCl, 1.5 mM MgCl<sub>2</sub>, 200 μM of each dNTP, stabilizers, and BSA.
- Includes control beads, containing rabbit globin mRNA and specific primers.

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**Fig 1.** Real-time PCR using Hot Start Mix RTG. Bead-to-bead reproducibility of a Lambda DNA titration from  $1.0 \times 10^3$  to  $1.0 \times 10^7$  copies in an intercalating dye real-time PCR assay. Ten replicates of each template concentration were cycled on the ABI 7900HT Fast Real-time PCR System. The standard curve resulted in a R<sup>2</sup> value of greater than 0.99.

## Ordering information

Product	Pack size	Fisher Scientific no.
<b>illustra PuReTaq Ready-To-Go PCR Beads</b>		
0.2 ml tubes	96 reactions	46001011
0.2 ml tubes	5 × 96 reactions	46001012
0.2 ml tubes with hinged caps	96 reactions	46001014
0.5 ml tubes	100 reactions	46001013
<b>illustra Hot Start Mix RTG</b>		
0.2 ml tubes	96 reactions	46001003
0.2 ml tubes	5 × 96 reactions	46001004
0.5 ml tubes	100 reactions	46001002
<b>illustra Ready-To-Go RT-PCR Beads</b>		
0.2 ml tubes	96 reactions	46001007
0.2 ml tubes with hinged caps	96 reactions	46001005
0.5 ml tubes	100 reactions	46001006

## Related products

Product	Pack size	Fisher Scientific no.
<b>PCR cleanup</b>		
<b>illustra GFX PCR DNA and Gel Band Purification Kit</b>	100 purification	45001489
	250 purifications	45001490
<b>ExoSAP-IT™ PCR Purification Kit</b>	100 reactions	45001204
	500 reactions	45001205
	2000 reactions	45001206
	5000 reactions	45001207
<b>Other Ready-To-Go Bead products</b>		
Ready-To-Go You Prime First-Strand Beads	50 reactions	45001416
Ready-To-Go T-Primed First-Strand Kit	50 reactions	45001415
Ready-To-Go T4 DNA Ligase	50 reactions	45001317
Ready-To-Go DNA Labeling Beads (-dCTP)	20 reactions	45001409



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