

Hot Start Version **GMP-grade** Titanium® Taq SP DNA polymerase **GMP-grade**

TaKaRa Taa™

GMP-grade DNA polymerases



High quality. Great performance.

With over 30 years of enzymology expertise, we are proud to have earned our customers' trust by providing reliable, high-performance enzymes that enable their success. This long history of quality is now paired with Good Manufacturing Practices (GMP), bringing an added level of confidence and reliability to our portfolio. We offer products that are produced in a GMP manufacturing facility under rigorous standards to ensure quality and consistency.

Our GMP-grade products are a natural complement to our commitment to providing high-performance, innovative products and services while maintaining high quality standards.



Our GMP-grade DNA polymerases offer:

- High performance
- Custom sizes and packaging

As part of our commitment to understanding and meeting the quality needs of all of our customers, Takara Bio USA, Inc. (formerly Clontech Laboratories, Inc.) has obtained ISO 9001:2008 and ISO 13485:2003 certifications.

See back page for product specifications and ordering information.

Takara Bio USA, Inc.

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02.17 IN (633817)



Which GMP-grade polymerase is right for your application?

	<i>TaKaRa Taq</i> Hot Start Version GMP grade	Titanium <i>Taq</i> SP DNA Polymerase GMP grade		
General characteristics	Manufactured following rigorous standards to ensure quality and consistency.			
Applications	Hot-start PCREnd-point PCRqPCR	 Hot-start PCR Multiplex PCR Genotyping Preparative PCR Whole-genome PCR Primer extension Rare template amplification 		
Formulated for commercial and OEM use		✓		
Enzyme specifications				
Contamination (ribonucleases, endonucleases, exonucleases)	No observable degradation	No observable degradation		
Nicking activities	No observable relaxation of supercoiled DNA	No observable relaxation of supercoiled DNA		
Residual <i>E. coli</i> gDNA	<10 copies/1.25 U	<10 copies/1 µI of enzyme		
Hot-start activity	Confirmed	Confirmed		
T/A overhangs	✓	✓		
PCR performance	8-kb fragment was amplified	1.3-bp and 407-bp fragments were amplified		
Sensitivity (λ DNA)	0.5-kb fragment was amplified from 10 pg of λ DNA	0.5-kb fragment was amplified from 10 pg of λ DNA		
Sensitivity (human gDNA)	0.1-kb fragment was amplified from 30 pg of human genomic DNA	0.1-kb fragment was amplified from 30 pg of human genomic DNA		

PRODUCTS

Cat. #	Product	Size
R310A	TaKaRaTaq Hot Start Version GMP grade	250 U
R320A	Titanium <i>Taq</i> SP DNA Polymerase GMP grade	100 Rxns

Notice to Purchaser

Your use of these products and technologies is subject to compliance with any applicable licensing requirements described on the product's web page at takarabio.com. It is your responsibility to review, understand and adhere to any restrictions imposed by such statements.

Our products are to be used for research purposes only. They may not be used for any other purpose, including, but not limited to, use in drugs, in vitro diagnostic purposes, therapeutics, or in humans. Our products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products or to provide a service to third parties without prior written approval of Takara Bio USA.



Learn more:

takarabio.com/GMP-PCR

