



Product Information				
2X VeraSeq PCR Mix				
Part Number	P7610L			
Concentration	2X			
Unit Size	250 Reactions			
Storage Temperature	-25°C to -15°C			
Lot Number				

Biozym Art. Nr.: 280091

Product Specifications P7610L Rev B

Product Description: VeraSeq PCR Mix is a premixed, readyto-use 2X solution containing VeraSeq 2.0 High-Fidelity DNA Polymerase, dNTPS, MgCl₂ and reaction buffer at optimal concentrations to maximize the speed, accuracy, and length of DNA synthesis. It is formulated to provide efficient, highfidelity DNA amplification for Next Generation Sequencing library preparation, cloning, and synthetic biology applications.

Product Specifications			
Assay	PCR Amplification Assay		
Specification	Amplification of 500bp fragment from Genomic DNA		

Source of Protein: Purified from strain a recombinant strain of *E. coli* carrying the engineered VeraSeq 2.0 gene.

Quality Control Analysis:

Functionality of 2X VeraSeq PCR Mix is assessed by its ability to amplify a 500bp fragment from genomic DNA. Following PCR the 500bp fragment was visualized by Agarose gel electrophoresis.

Contamination Tests:

VeraSeq was tested prior to assembly and found free of contaminating endonucleases. Enzyme purity was >99% as determined by SDS-PAGE and negligible E.coli genomic DNA contamination was confirmed by qPCR. Specific activity was verified pre and post dilution.





Product Specifications P7610L Rev B

2X VeraSeq PCR Mix Instructions for Use

Common Applications

Ideal choice for applications requiring high fidelity DNA amplification such as cloning, next generation sequencing, and synthetic biology.

Suggested Protocol

General precautions should be taken when setting up a PCR, including setting up the reaction on ice, adding master mix last, gently pipetting, thorough mixing and a quick centrifugation. The following procedure can be used as a guideline. Reactions may need to be optimized individually.

Reaction setup (for 50µL)*

Component	Volume (µL)	Final Concentration	
Sterile H ₂ O	20 – x		
2X VeraSeq PCR Mix	25	1X	
PCR Primer Cocktail	5	0.5 μM each	
Library DNA*	Х		

^{*} Total reaction volumes of library DNA and water should be adjusted to achieve a final reaction volume of 50μ L. If the reaction volume needs to be > 50μ L, the volume of the 2X Master Mix should be adjusted so that it constitutes 50% of the final reaction volume.

Typical cycling conditions **

Step	Temperature	Time	Cycles
Initial Denaturation	98°C	30 s	1
Denaturation	98°C	10 s	
Annealing	60°C	30 s	TBD by User [△]
Extension	72°C	30 s	
Final Extension	72°C	300 s	1
	4°C	hold	

** Cycling conditions may need to be optimized, depending on the amplicon of interest.

^A Number of cycles is dependent on the amount of input DNA and other specific sequence analysis requirements.

Legal Disclaimer:

VeraSeq 2.0 is licensed from Bio-Rad Laboratories, Inc., under U.S. Pat. Nos. 6,627,424, 7,541,170, 7,560,260 and corresponding patents in other countries for use solely in DNA sequencing, DNA micro-array, and conventional PCR applications, including pre-amplification steps that are required for such applications, in the life science research fields but not real-time PCR or digital PCR. *In-vitro* diagnostics rights are available, please contact Enzymatics for more information.

Limitations of Use

This product was developed, manufactured, and sold for *in vitro* use only. The product is not suitable for administration to humans or animals. MSDS sheets relevant to this product are available upon request.

100 Cummings Center, Suite 407J, Beverly, MA 01915 • Ph (888) 927-7027 • Fax (978) 867-5724 • <u>www.enzymatics.com</u> FMWI016.1 Rev C Biozym Scientific GmbH – Steinbrinksweg 27 - D-31840 Hessisch Oldendorf Tel.: +49 (0)5152-9020 - Fax: +49 (0)5152-2070 - support@biozym.com - www.biozym.com