(V0/2022-11-01)

[Cat. No.] K-6892

Introduction

AccuPower® Candida parapsilosis Real-Time PCR Kit is a product that can specifically detect Candida parapsilosis (C. parapsilosis) by real-time PCR.

C. parapsilosis is a yeast that primarily causes sepsis, endocarditis and arthritis. C. parapsilosis can grow by attaching to the medical devices such as catheters and prosthetic devices. Especially, antifungal drugs efficiency can be decreased by biofilm produced by C. parapsilosis and the therapeutic effect may be reduced. In the case of underweight newborns, it can be dangerous because they are easily exposed to C. parapsilosis if care is not taken in the use of medical devices.

This product contains all Real-time PCR components specific to *C. parapsilosis*, including DNA polymerase, dNTPs, and reaction buffer. The users can easily prepare a reaction mixture simply by adding template DNA, Oligo Mix and DEPC-D.W.

Features & Benefits

- Convenience: All necessary reactants for real-time PCR are included in a tube (i.e., Master Mix Type), allowing the users to perform reaction simply by adding template DNA, Oligo Mix, and DEPC-D.W.
- Sensitivity: By using BIONEER's HotStart Taq DNA Polymerase that minimizes non-specific reactions and maximizes reaction efficiency, only the target gene can be effectively amplified even with a trace amount of template DNA.

Components

Components	Amount
2X Master Mix	625 µl x 2 ea
Oligo Mix	500 μΙ
DEPC-D.W.	1.8 ml
Positive Control (1x10 ⁸ copies/µl)	50 μΙ

^{*} Note: For research use only. Not for use in diagnostic or therapeutic procedures.

Composition

Composition	25 μl reaction
Taq DNA Polymerase	2.5 U
dNTPs (dATP, dCTP, dGTP, dTTP)	Each 300 µM
Reaction buffer with 2 mM MgCl ₂	1X
C. parapsilosis Forward primer	0.6 µM
C. parapsilosis Reverse primer	0.6 µM
C. parapsilosis Probe (FAM)	0.6 µM
ROX dye	1X
	Taq DNA Polymerase dNTPs (dATP, dCTP, dGTP, dTTP) Reaction buffer with 2 mM MgCl ₂ C. parapsilosis Forward primer C. parapsilosis Reverse primer C. parapsilosis Probe (FAM)

Specifications

Taq DNA Polymerase				
5'→3' exonuclease activity	Yes			
3'→5' exonuclease activity	No			
3'-A overhang	Yes			

Storage

Store at -20°C. If stored in the recommended temperature, this product will be stable until the expiration date printed out on the label

Online Resources



English

Visit our **product page** for additional information and protocols

Ordering Information

Description	Cat. No.	
AccuPower® Candida parapsilosis Real-Time PCR	K 0000	
Kit, 1.25 ml of 2X Master Mix solution, 100 tests	K-6892	

Notice

BIONEER corporation reserves the right to make corrections, modifications, improvements and other changes to its products, services, specifications or product descriptions at any time without notice.

Explanation of Symbols





Experimental Procedures

	Steps	Procedure Details			
1	Preparation of reaction mixture	Thaw all components of <i>AccuPower</i> ® Candida parapsilosis Real-Time PCR Kit on ice and mix thoroughly before use. Then, briefly spin down all components.			
2	Composition of reaction mixture		nto PCR tubes (not provided) or a plate (not provided) referring components (Based on 1 test). nents Amount 12.5 µl 5 µl 1-5 µl Variable 25 µl		
3	Real-time PCR	3. Place PCR tubes or plate on the Real-Time Quantitative thermal cycler. 4. Perform the reaction under the following conditions. Step Temperature Time Cycles			

Revision: 7 (2021-04-12)