Introduction

Background

Candida auris has recently emerged globally as a clinically important pathogen that can lead to serious disease and is associated with high mortality. The majority of C. auris isolates have been isolated from patients with nosocomial infections..

Accurate detection of C. auris is vital for effective treatment and infection control. Traditionally, diagnosis of C. auris is based on conventional blood culture and microbiological testing, which are time-consuming and labor-intensive.

Methods

Cell Preparation for Laboratory Testing

A small amount of blood was subjected to mechanical lysis, and the cell lysate was used as template for nucleic acid amplification. The T2MR detection channel was then used to detect the presence of C. auris specific DNA.

Results

High Sensitivity DNA Detection by T2MR

A high sensitivity detection method for C. auris has been developed using T2MR technology. The T2MR detection channel was used to detect the presence of C. auris DNA in blood samples from patients with a suspected diagnosis of Candida auris.

Conclusions

The T2MR technology offers a rapid and sensitive detection method for C. auris in clinical samples, which can aid in the early diagnosis and appropriate treatment of patients with this emerging fungal pathogen.