SMG
STEPHENS MOLECULAR GROUP

ABR PANEL

15-Target Multiplex Real-Time PCR Assay

Precision Diagnostics.
Practical Solutions.

PRODUCT CODE
SMG-ABR-1501

15 TARGETS
ACCURATE. RELIABLE. TRUSTED.

CLINICAL OVERVIEW

The SMG ABR Panel is a 15-target multiplex real-time PCR assay designed for the qualitative detection of clinically significant antimicrobial resistance (AMR) markers. This assay enables laboratories to rapidly identify major resistance mechanisms associated with multidrug-resistant organisms, supporting antimicrobial stewardship and informed clinical decision-making.

CLINICAL APPLICATIONS

- Hospital Laboratories
- Reference Laboratories
- Physician Office Laboratories
- Urgent Care & Walk-In Clinics
- Long-Term Care Facilities
- Public Health Laboratories
- Infection Prevention Programs

KEY FEATURES

15 CLINICIALLY RELEVANT TARGETS
Detects key antimicrobial resistance genes and markers in a single multiplex assay.

MULTIPLEX REAL-TIME PCR
High analytical sensitivity and specificity with rapid turnaround.

BROAD RESISTANCE COVERAGE
Designed to detect resistance markers associated with beta-lactams, carbapenems, methicillin, vancomycin, sulfonamides, trimethoprim, and fluoroquinolones.

ACCURATE & RELIABLE
Robust assay performance supported by internal quality controls.

TECHNICAL SUPPORT
Experienced molecular scientists available throughout implementation and validation.

VALIDATION MATERIALS & SUPPORT AVAILABLE
Comprehensive validation assistance and documentation available.

COMPATIBLE PLATFORMS

Validated on leading real-time PCR instruments.



Thermo Fisher QuantStudio™ 5



Thermo Fisher QuantStudio™ 12 Flex

Other Compatible Real-Time PCR Systems

COMPLETE TARGET LIST

- Candida auris
- CTX-M-1/2/9/8 (includes blaCTX-M-3, blaCTX-M-9, blaCTX-M-35, blaCTX-M-63)
- dfrA1
- dfrA5
- KPC-3
- mecA
- NDM
- qnrA
- qnrB
- qnrS
- RNase P (RPP30)
- sul1
- sul2
- vanA
- vanB

Rapid Detection of Clinically Significant Antimicrobial Resistance Markers

High analytical sensitivity and specificity for dependable molecular results.

WHY STEPHENS MOLECULAR GROUP?

We do more than supply molecular assays. We partner with laboratories to ensure successful implementation, validation, and long-term operational success.

ASSAY IMPLEMENTATION
Expert guidance for smooth assay adoption and integration.

VALIDATION PLANNING
Customized plans to meet regulatory and accreditation requirements.

SOP DEVELOPMENT
Comprehensive standard operating procedures tailored to your lab.

WORKFLOW OPTIMIZATION
Improve efficiency, reduce costs, and maximize productivity.

LABORATORY TRAINING
Hands-on training and resources for your laboratory team.

ONGOING TECHNICAL SUPPORT
Responsive molecular expertise when you need it.

MOLECULAR LABORATORY CONSULTING
Strategic support for growth and operational excellence.

INSPECTION READINESS ASSISTANCE
Support for CAP, CLIA, and other regulatory inspections.

VALIDATION MATERIALS & SUPPORT AVAILABLE

Ask about our comprehensive validation materials, positive controls, contrived materials, SOPs, and implementation assistance.