

AMPLIRUN® Total –

Comprehensive Platform Compatibility Report

Introduction

Ensuring reliable molecular diagnostic results requires robust quality controls that perform consistently across different technologies. Vircell's AmpliRun® Total Molecular Controls are independent third-party materials designed to verify the full analytical process, from nucleic acid extraction to amplification and result interpretation, providing confidence in assay performance regardless of the platform used.

Unlike some platform-specific materials, AmpliRun® Total contains the inactivated pathogen in its entirety and is not tailored to any particular manufacturer or assay. Each control includes a physiological matrix with human cells, proteins, and electrolytes that closely simulate real clinical specimens, making the material more challenging and realistic for molecular assays. This composition ensures that the control not only verifies the technical workflow but also mirrors the complexity of real patient samples.

AmpliRun® Total is designed to behave like a low-positive clinical specimen, containing sufficient target material to confirm assay sensitivity, including proper primer and probe performance within the molecular test being evaluated.

The purpose of this Technical Note is to provide a comprehensive overview of all AmpliRun® Total products that have been successfully validated or show potential compatibility across leading commercial molecular diagnostic platforms, based on end-user feedback, IVD manufacturer validations, and technical specifications.

Main Advantages of AmpliRun® Total

- Independent third-party controls for objective performance verification.
- Monitor the complete molecular workflow: from extraction to amplification and result interpretation.
- Complete inactivated microorganism in a physiological matrix with human cells, proteins, and electrolytes simulating clinical specimens.
- Comprehensive panels available covering a wide range of pathogens.
- Non-infectious and safe to handle.
- Lyophilized monodose format for convenience and long shelf-life.
- Extensive platform compatibility demonstrated across major molecular diagnostic systems.
- Quantified, low positive controls designed to produce clinically significant results.

Validated Platform Compatibility

The following platforms have demonstrated validated compatibility with AmpliRun® Total controls through formal testing by end-users, IVD manufacturers, or published scientific evidence.

Cepheid GeneXpert®

DESCRIPTION	REFERENCE
AMPLIRUN® TOTAL CLOSTRIDIUM DIFFICILE RT027 CONTROL (STOOL)	MBTC026-R
AMPLIRUN® TOTAL MTB CONTROL (SPUTUM)	MBTC013
AMPLIRUN® TOTAL MDR-TB VERIFICATION & CONTROL PANEL (SPUTUM)	MBTC027
AMPLIRUN® TOTAL FLU A/FLU B/ RSV CONTROL (SWAB)	MBTC028
AMPLIRUN® TOTAL SARS-CoV-2/FluA/FluB/RSV CONTROL (SWAB)	MBTC031
AMPLIRUN® TOTAL CT/NG CONTROL (URINE)	MBTC003
AMPLIRUN® TOTAL CT/NG CONTROL (EXUDATE)	MBTC006
AMPLIRUN® TOTAL SARS-CoV-2 CONTROL (SWAB)	MBTC030
AMPLIRUN® TOTAL MACROLIDE RESISTANT MGE CONTROL PANEL (SWAB)	MBTC029

Seegene Allplex™

DESCRIPTION	REFERENCE
AMPLIRUN® TOTAL RESPIRATORY VIRAL PANEL CONTROL (SWAB)	MBTC020
AMPLIRUN® TOTAL ATYPICAL BACTERIAL PNEUMONIA CONTROL (SWAB)	MBTC022-R
AMPLIRUN® TOTAL SARS-CoV-2 CONTROL (SWAB)	MBTC030
AMPLIRUN® TOTAL CT/NG/TV/MGE CONTROL (SWAB)	MBTC024-R
AMPLIRUN® TOTAL MACROLIDE RESISTANT MGE CONTROL PANEL (SWAB)	MBTC029

BD MAX™

DESCRIPTION	REFERENCE
AMPLIRUN® TOTAL GASTROINTESTINAL BACTERIAL PANEL CONTROL (STOOL)	MBTC021
AMPLIRUN® TOTAL CT/NG/TV/MGE CONTROL (SWAB)	MBTC024-R
AMPLIRUN® TOTAL RESPIRATORY VIRAL PANEL CONTROL (SWAB)	MBTC020
AMPLIRUN® TOTAL SARS-CoV-2/FluA/FluB/RSV CONTROL (SWAB)	MBTC031
AMPLIRUN® TOTAL MTB CONTROL (SPUTUM)	MBTC013
AMPLIRUN® TOTAL MDR-TB VERIFICATION & CONTROL PANEL (SPUTUM)	MBTC027

Qiagen QIAstat-Dx®

DESCRIPTION	REFERENCE
AMPLIRUN® TOTAL GASTROINTESTINAL BACTERIAL PANEL CONTROL (STOOL)	MBTC021
AMPLIRUN® TOTAL RESPIRATORY VIRAL PANEL CONTROL (SWAB)	MBTC020
AMPLIRUN® TOTAL ATYPICAL BACTERIAL PNEUMONIA CONTROL (SWAB)	MBTC022-R
AMPLIRUN® TOTAL FLU A/FLU B/ RSV CONTROL (SWAB)	MBTC028
AMPLIRUN® TOTAL SARS-CoV-2 CONTROL (SWAB)	MBTC030
AMPLIRUN® TOTAL SARS-CoV-2/FluA/FluB/RSV CONTROL (SWAB)	MBTC031
AMPLIRUN® TOTAL MENINGITIS CONTROL (CSF)	MBTC025-R

ELITe InGenius®

DESCRIPTION	REFERENCE
AMPLIRUN® TOTAL GASTROINTESTINAL BACTERIAL PANEL CONTROL (STOOL)	MBTC021
AMPLIRUN® TOTAL CLOSTRIDIUM DIFFICILE RT027 CONTROL (STOOL)	MBTC026-R
AMPLIRUN® TOTAL EBV CONTROL (PLASMA)	MBTC019
AMPLIRUN® TOTAL MDR-TB VERIFICATION & CONTROL PANEL (SPUTUM)	MBTC027
AMPLIRUN® TOTAL ATYPICAL BACTERIAL PNEUMONIA CONTROL (SWAB)	MBTC022-R
AMPLIRUN® TOTAL MACROLIDE RESISTANT MGE CONTROL PANEL (SWAB)	MBTC029
AMPLIRUN® TOTAL HSV-1/HSV-2/VZV CONTROL (EXUDATE)	MBTC016
AMPLIRUN® TOTAL CMV CONTROL (PLASMA)	MBTC018-R
AMPLIRUN® TOTAL FLU A/FLU B/ RSV CONTROL (SWAB)	MBTC028

Roche cobas®/Liat

DESCRIPTION	REFERENCE
AMPLIRUN® TOTAL FLU A/FLU B/ RSV CONTROL (SWAB)	MBTC028
AMPLIRUN® TOTAL SARS-CoV-2/FluA/FluB/RSV CONTROL (SWAB)	MBTC031

STANDARD M M10

DESCRIPTION	REFERENCE
AMPLIRUN® TOTAL CLOSTRIDIUM DIFFICILE RT027 CONTROL (STOOL)	MBTC026-R
AMPLIRUN® TOTAL MTB CONTROL (SPUTUM)	MBTC013
AMPLIRUN® TOTAL MTB RIF RESISTANT CONTROL (SPUTUM)	MBTC014
AMPLIRUN® TOTAL MTB INH RESISTANT CONTROL (SPUTUM)	MBTC015
AMPLIRUN® TOTAL MDR-TB VERIFICATION & CONTROL PANEL (SPUTUM)	MBTC027
AMPLIRUN® TOTAL SARS-CoV-2/FluA/FluB/RSV CONTROL (SWAB)	MBTC031
AMPLIRUN® TOTAL CT/NG/TV/MGE CONTROL (SWAB)	MBTC024-R
AMPLIRUN® TOTAL ZIKV/DENV/CHIKV CONTROL (PLASMA)	MBTC023

Hologic PANTHER® (TMA)

DESCRIPTION	REFERENCE
AMPLIRUN® TOTAL CT/NG CONTROL (URINE)	MBTC003
AMPLIRUN® TOTAL CT/NG CONTROL (EXUDATE)	MBTC006
AMPLIRUN® TOTAL RESPIRATORY VIRAL PANEL CONTROL (SWAB)	MBTC020
AMPLIRUN® TOTAL SARS-CoV-2/FluA/FluB/RSV CONTROL (SWAB)	MBTC031

BioFire FilmArray®

DESCRIPTION	REFERENCE
AMPLIRUN® TOTAL GASTROINTESTINAL BACTERIAL PANEL CONTROL (STOOL)	MBTC021
AMPLIRUN® TOTAL CLOSTRIDIUM DIFFICILE RT027 CONTROL (STOOL)	MBTC026-R
AMPLIRUN® TOTAL RESPIRATORY VIRAL PANEL CONTROL (SWAB)	MBTC020
AMPLIRUN® TOTAL ATYPICAL BACTERIAL PNEUMONIA CONTROL (SWAB)	MBTC022-R
AMPLIRUN® TOTAL FLU A/FLU B/ RSV CONTROL (SWAB)	MBTC028
AMPLIRUN® TOTAL SARS-CoV-2 CONTROL (SWAB)	MBTC030
AMPLIRUN® TOTAL SARS-CoV-2/FluA/FluB/RSV CONTROL (SWAB)	MBTC031
AMPLIRUN® TOTAL MENINGITIS CONTROL (CSF)	MBTC025-R

VIRPLEX® MiniLab

DESCRIPTION	REFERENCE
AMPLIRUN® TOTAL CT/NG CONTROL (URINE)	MBTC003
AMPLIRUN® TOTAL CT/NG CONTROL (EXUDATE)	MBTC006
AMPLIRUN® TOTAL CT/NG/TV/MGE CONTROL (SWAB)	MBTC024-R
AMPLIRUN® TOTAL MACROLIDE RESISTANT MGE CONTROL PANEL (SWAB)	MBTC029
AMPLIRUN® TOTAL MONKEYPOX VIRUS CONTROL (SWAB)	MBTC032-R

Potential Platform Compatibility

The following platform compatibilities are based on technical specifications and assay panel composition. While formal validation data may not be available, these combinations are expected to be compatible based on target coverage and matrix characteristics. Users are encouraged to perform their own verification studies.

Cepheid GeneXpert®

DESCRIPTION	REFERENCE
AMPLIRUN® TOTAL CT/NG/TV/MGE CONTROL (SWAB)	MBTC024-R
AMPLIRUN® TOTAL VAGINAL PANEL CONTROL (SWAB)	MBTC033-R
AMPLIRUN® TOTAL MONKEYPOX VIRUS CONTROL (SWAB)	MBTC032-R

BD MAX™

DESCRIPTION	REFERENCE
AMPLIRUN® TOTAL VAGINAL PANEL CONTROL (SWAB)	MBTC033-R
AMPLIRUN® TOTAL CT/NG CONTROL (URINE)	MBTC003
AMPLIRUN® TOTAL CT/NG CONTROL (EXUDATE)	MBTC006
AMPLIRUN® TOTAL HSV-1/HSV-2/VZV CONTROL (EXUDATE)	MBTC016
AMPLIRUN® TOTAL CLOSTRIDIUM DIFFICILE RT027 CONTROL (STOOL)	MBTC026-R

ELITe InGenius®

DESCRIPTION	REFERENCE
AMPLIRUN® TOTAL MENINGITIS CONTROL (CSF)	MBTC025-R
AMPLIRUN® TOTAL SARS-CoV-2/FluA/FluB/RSV CONTROL (SWAB)	MBTC031

Seegene Allplex™

DESCRIPTION	REFERENCE
AMPLIRUN® TOTAL GASTROINTESTINAL BACTERIAL PANEL CONTROL (STOOL)	MBTC021
AMPLIRUN® TOTAL FLU A/FLU B/ RSV CONTROL (SWAB)	MBTC028
AMPLIRUN® TOTAL SARS-CoV-2/FluA/FluB/RSV CONTROL (SWAB)	MBTC031
AMPLIRUN® TOTAL VAGINAL PANEL CONTROL (SWAB)	MBTC033-R
AMPLIRUN® TOTAL MDR-TB VERIFICATION & CONTROL PANEL (SPUTUM)	MBTC027

Bosch Vivalytic

DESCRIPTION	REFERENCE
AMPLIRUN® TOTAL MENINGITIS CONTROL (CSF)	MBTC025-R
AMPLIRUN® TOTAL FLU A/FLU B/ RSV CONTROL (SWAB)	MBTC028
RESPIRATORY SWAB MATRIX NEGATIVE CONTROL	MC110
AMPLIRUN® TOTAL ZIKV/DENV/CHIKV CONTROL (PLASMA)	MBTC023

Hologic PANTHER® (TMA)

DESCRIPTION	REFERENCE
AMPLIRUN® TOTAL CT/NG/TV/MGE CONTROL (SWAB)	MBTC024-R
AMPLIRUN® TOTAL MACROLIDE RESISTANT MGE CONTROL PANEL (SWAB)	MBTC029

Roche cobas®/Liat

DESCRIPTION	REFERENCE
AMPLIRUN® TOTAL CLOSTRIDIUM DIFFICILE RT027 CONTROL (STOOL)	MBTC026-R
AMPLIRUN® TOTAL EBV CONTROL (PLASMA)	MBTC019
AMPLIRUN® TOTAL MTB CONTROL (SPUTUM)	MBTC013
AMPLIRUN® TOTAL MTB RIF RESISTANT CONTROL (SPUTUM)	MBTC014
AMPLIRUN® TOTAL MTB INH RESISTANT CONTROL (SPUTUM)	MBTC015
AMPLIRUN® TOTAL MDR-TB VERIFICATION & CONTROL PANEL (SPUTUM)	MBTC027
AMPLIRUN® TOTAL RESPIRATORY VIRAL PANEL CONTROL (SWAB)	MBTC020
AMPLIRUN® TOTAL SARS-CoV-2 CONTROL (SWAB)	MBTC030
AMPLIRUN® TOTAL CT/NG CONTROL (URINE)	MBTC003
AMPLIRUN® TOTAL CT/NG/TV/MGE CONTROL (SWAB)	MBTC024-R
AMPLIRUN® TOTAL HSV-1/HSV-2/VZV CONTROL (EXUDATE)	MBTC016

STANDARD M M10

DESCRIPTION	REFERENCE
AMPLIRUN® TOTAL CT/NG CONTROL (URINE)	MBTC003
AMPLIRUN® TOTAL CT/NG CONTROL (EXUDATE)	MBTC006
AMPLIRUN® TOTAL MONKEYPOX VIRUS CONTROL (SWAB)	MBTC032-R

Abbott (Alinity m / m2000)

DESCRIPTION	REFERENCE
AMPLIRUN® TOTAL EBV CONTROL (PLASMA)	MBTC019
AMPLIRUN® TOTAL MTB CONTROL (SPUTUM)	MBTC013
AMPLIRUN® TOTAL MTB RIF RESISTANT CONTROL (SPUTUM)	MBTC014
AMPLIRUN® TOTAL MTB INH RESISTANT CONTROL (SPUTUM)	MBTC015
AMPLIRUN® TOTAL MDR-TB VERIFICATION & CONTROL PANEL (SPUTUM)	MBTC027
AMPLIRUN® TOTAL SARS-CoV-2/FluA/FluB/RSV CONTROL (SWAB)	MBTC031
AMPLIRUN® TOTAL CT/NG CONTROL (URINE)	MBTC003
AMPLIRUN® TOTAL CT/NG CONTROL (EXUDATE)	MBTC006
AMPLIRUN® TOTAL CT/NG/TV/MGE CONTROL (SWAB)	MBTC024-R

Diasorin Simplexa™

DESCRIPTION	REFERENCE
AMPLIRUN® TOTAL CLOSTRIDIUM DIFFICILE RT027 CONTROL (STOOL)	MBTC026-R
AMPLIRUN® TOTAL ATYPICAL BACTERIAL PNEUMONIA CONTROL (SWAB)	MBTC022-R
AMPLIRUN® TOTAL FLU A/FLU B/ RSV CONTROL (SWAB)	MBTC028
AMPLIRUN® TOTAL SARS-CoV-2 CONTROL (SWAB)	MBTC030
AMPLIRUN® TOTAL SARS-CoV-2/FluA/FluB/RSV CONTROL (SWAB)	MBTC031

Abbott ID NOW

DESCRIPTION	REFERENCE
AMPLIRUN® TOTAL SARS-CoV-2/FluA/FluB/RSV CONTROL (SWAB)	MBTC031
AMPLIRUN® TOTAL SARS-CoV-2 CONTROL (SWAB)	MBTC030
AMPLIRUN® TOTAL FLU A/FLU B/RSV CONTROL (SWAB)	MBTC028

