

# AccuPlex™ Quality Solutions for Respiratory Disease Diagnostics

## ASSAY VERIFICATION AND ONGOING PERFORMANCE MONITORING FOR ROUTINE PATIENT TESTING

### HIGHLIGHTS

NON-INFECTIOUS  
AND REPLICATION  
DEFICIENT; ENSURES  
SAFE HANDLING IN  
CONTRAST TO VIRAL  
SAMPLES

FULLY EXTRACTABLE  
WITH A REAL VIRAL  
PROTEIN COAT;  
SUPERIOR TO "NAKED"  
TRANSCRIBED RNA

OPTIMIZED FOR  
ASSAY VERIFICATION  
AND DAYTO- DAY  
PERFORMANCE  
MONITORING

2 YEAR STABILITY  
AT 2 – 8°C

Whether your laboratory is utilizing multiplex or sequential molecular testing workflows, AccuPlex™ offers quality solutions with targets for SARS-CoV-2, influenza A/B and respiratory syncytial virus (RSV). These full-process quality solutions are designed to challenge the entire molecular test procedure from extraction to detection, ensuring clinical laboratories can have confidence in their assay results.

**AccuPlex Verification Panels** are optimized for assay verification at installation by documenting test performance along the assay's range, enabling laboratories to establish lower limits of detection, perform assay comparisons, and evaluate staff proficiency.

**AccuPlex Reference Material and Molecular Controls Kits** are designed to measure day-to-day performance of the assay, providing both a positive and negative reference solution.

### MULTIPLEXED SOLUTIONS

#### SARS-CoV-2, Flu A/B and RSV

Product Description	Material Numbers	Pack Size	Concentration
AccuPlex SARS-CoV-2, Flu A/B and RSV Verification Panel*	0505-0278	Positive 1 1 x 3 mL Positive 2 1 x 3 mL Positive 3 1 x 3 mL Negative 1 x 3 mL	100,000 copies/mL 10,000 copies/mL 1,000 copies/mL 5,000 copies/mL (RNase P)
AccuPlex SARS-CoV-2, Flu A/B and RSV Molecular Controls Kit**	0505-0260	Positive 5 x 1.5 mL Negative 5 x 1.5 mL	5,000 copies/mL 5,000 copies/mL (RNase P)

\*Not for In Vitro Diagnostic Use. Research Use Only.

\*\*For In Vitro Diagnostic Use. CE-IVD marked.

### SEQUENTIAL SOLUTIONS

#### SARS-CoV-2

Product Description	Material Numbers	Pack Size	Concentration
AccuPlex SARS-CoV-2 Verification Panel*	0505-0168	Positive 1 1 x 3 mL Positive 2 1 x 3 mL Positive 3 1 x 3 mL Negative 1 x 3 mL	100,000 copies/mL 10,000 copies/mL 1,000 copies/mL 5,000 copies/mL (RNase P)
AccuPlex SARS-CoV-2 Molecular Controls Kit**	0505-0159	Positive 5 x 1.5 mL Negative 5 x 1.5 mL	5,000 copies/mL 5,000 copies/mL (RNase P)

\*Not for In Vitro Diagnostic Use. Research Use Only.

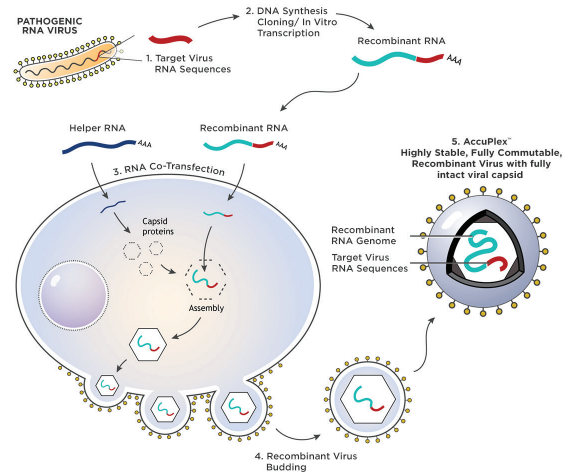
\*\*For In Vitro Diagnostic Use. CE-IVD marked.

#### Flu A/B and RSV

Product Description	Material Numbers	Pack Size	Concentration
AccuPlex Flu A/B and RSV Verification Panel	0515-0002	Positive 1 1 x 3 mL Positive 2 1 x 3 mL Positive 3 1 x 3 mL Negative 1 x 3 mL	100,000 copies/mL 10,000 copies/mL 1,000 copies/mL 5,000 copies/mL (RNase P)
AccuPlex Flu A/B and RSV Reference Material Kit	0515-0001	Positive 5 x 1.5 mL Negative 5 x 1.5 mL	5,000 copies/mL 5,000 copies/mL (RNase P)

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LGC SeraCare's AccuPlex recombinant material serves as a true full process molecular control for your diagnostic assays. Compatible with multiplexed RT-PCR and NGS-based assays, AccuPlex custom recombinant materials are constructed with a replication-deficient mammalian virus, producing a safe, noninfectious material (Figure 1). With a protein coat and lipid bilayer, these mammalian virus-based reference materials resemble the complexity of virus targets found in true patient samples.



**FIGURE 1:** 1) RNA sequence from the pathogenic virus of interest is chosen. 2) DNA synthesis and cloning occur to produce the recombinant RNA. 3) Recombinant RNA and helper RNA are co-transfected into the mammalian cells, allowing the encapsulation of recombinant RNA. 4) Exocytosis of the mature enveloped non-infectious and replication deficient RNA virus containing the assay target RNA sequence of interest

### MOST 'PATIENT SAMPLE-LIKE' MATERIAL EVALUATES ENTIRE WORKFLOW

Unlike RNA-spiked buffer, or technologies that package viral RNA into a bacteriophage, the AccuPlex recombinant closely resembles the wild-type mammalian pathogenic virus. This enables the release of the viral genome at a similar rate to the wild-type virus during the nucleic acid sample preparation process. AccuPlex recombinant material mimics a real patient sample in your workflow, serving as a full-process control for your assay.

### ACCUPLEX SOLVES ASSAY DEVELOPMENT CHALLENGES

If you're developing diagnostics for emerging viral diseases and have the challenge of including safe, noninfectious controls in your test kit, partner with LGC SeraCare's talented R&D team to produce your custom AccuPlex recombinant virus material (DNA or RNA-based). Utilizing your sequences of interest and products specifications, we will develop a custom solution which meets your unique requirements.

### ORDERING INFORMATION

To place an order, or learn more about our SARS-CoV-2 Quality Solutions, please contact us at +1.508.244.6400 and 800.676.1881 or email [CDx-CustomerService@lgcgroup.com](mailto:CDx-CustomerService@lgcgroup.com).

## ABOUT LGC SERACARE

TRUSTED SUPPLIER  
TO THE DIAGNOSTIC  
TESTING INDUSTRY  
FOR OVER 30 YEARS

HIGH-QUALITY  
CONTROL PRODUCTS,  
RAW BIOLOGICAL  
MATERIALS, AND  
IMMUNOASSAY  
REAGENTS

INNOVATIVE TOOLS  
AND TECHNOLOGIES  
TO PROVIDE  
ASSURANCE IN  
DIAGNOSTIC ASSAY  
PERFORMANCE AND  
TEST RESULTS

FOR MORE  
INFORMATION, PLEASE  
VISIT OUR WEBSITE:  
[WWW.SERACARE.COM](http://WWW.SERACARE.COM)

