



Product Name

Respiratory Syncytial Virus Type A (RSV-A)

Description

Respiratory Syncytial Virus Type A (RSV-A) is a clinically relevant viral strain used as a molecular control material in virology research, diagnostic assay development, quality assurance, and immunological studies.

Specification

Parameter	Details
Concentration	5×10^4 copies/mL
Assignment Method	Digital PCR
Formulation	Liquid viral control
Storage	Unopened: $-20\text{ °C} \pm 5\text{ °C}$; After Opening: $2\text{-}8\text{ °C}$
Stability Unopened	36 months from manufacture
Stability After Opening	4 weeks at $2\text{-}8\text{ °C}$
Shipping Conditions	Shipped on dry ice

Intended Use

This product is intended as a **molecular control** for nucleic acid amplification tests (NAATs) and other RSV diagnostic platforms, enabling performance monitoring, verification of assay sensitivity, and support for quality management systems.

Biological Background

Respiratory syncytial virus (RSV) is an enveloped, negative-sense, single-stranded RNA virus belonging to the species human orthopneumovirus. It is a common cause of respiratory tract infections, particularly in infants, young children, and vulnerable adults. Two major subtypes, A and B, circulate in human populations, with RSV-A often associated with higher viral loads and greater transmissibility.



Procedural Guidelines

1. Equilibrate to room temperature before use.
2. Mix gently but thoroughly; avoid creating aerosols.
3. Process as a clinical sample, including nucleic acid extraction and amplification.
4. Avoid repeated freeze–thaw cycles.
5. Include appropriate negative and positive controls as defined by your laboratory’s QA protocols.

Quality Control Recommendations

- Run this RSV-A control alongside test samples to ensure consistent assay performance.
- Maintain control charts to monitor assay precision and detect shifts over time.

Precautions

- Handle as potentially biohazardous, even if inactivated or non-infectious.
- Use proper PPE and follow institutional biosafety procedures.
- For in vitro diagnostic use only; not for therapeutic or clinical diagnosis without established assay systems.

Compatible Platforms

- Real-time PCR and other molecular diagnostic systems designed for RSV detection.
- Any validated platform that can detect RNA or nucleic acid targets in clinical specimens.

Regulatory / Usage Notes



- This product is a quality control material and does not replace manufacturer-provided assay controls.
- Confirm regulatory compliance with local accreditation and regulatory requirements before use in a clinical setting.