



Scienetix RPP 4-Plex PCR Assay for Clinical Application

About the Kit:

The Scienetix RPP (Respiratory Pathogen Panel) 4-Plex PCR Assay is a multiplexed molecular diagnostic solution designed for clinical labs as a Laboratory Developed Test (LDT). Engineered to accurately identify a wide spectrum of respiratory pathogens in a single, streamlined run, this comprehensive panel empowers clinicians with rapid, actionable insights—ultimately improving patient care and reducing healthcare burdens.

Key Highlights:

- **Broad Coverage:**
 - Simultaneous detection of a wide array of respiratory viruses including coronaviruses (229E, HKU1, OC43, NL63), influenza (A, B, H1N1swl), RSV, rhinovirus, parainfluenza viruses (1-4), adenovirus, and bocavirus.
 - Identifies bacterial pathogens frequently implicated in respiratory illness, such as *Klebsiella pneumoniae*, *Mycoplasma pneumoniae*, *Haemophilus influenzae*, *Staphylococcus aureus* (MecA), *Streptococcus pneumoniae*, and *Bordetella* species.
- **High Specificity & Sensitivity:**
 - Each target confidently detected at as low as 10 copies/μL, ensuring early and accurate identification of pathogens.
 - No cross-reactivity with normal flora, guaranteeing clean, reliable results.
- **Robust Linearity:**
 - Excellent quantitative performance ($R^2 > 0.98$) across a wide dynamic range (100,000 copies/μL down to 1 copy/μL).
- **Flexible Sample Types:**
 - Effective detection from oropharyngeal and nasopharyngeal swabs in BD E-Swab Liquid, using standard nucleic acid extraction protocols.
- **Stable Sample Handling:**
 - Maintains sample integrity up to 7 days at refrigerated or frozen conditions, and 1 day at room or elevated temperatures.

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THE HUMAN ADVANTAGE

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RPP 4-Plex PCR Assay Panel

Panel	MM#	FAM	SUN	CY5	TxRed
RPP-1	1	Human Coronavirus 229E	Human Coronavirus HKU1	Human Coronavirus OC43	Human Coronavirus NL63
RPP-2	2	Human Parechovirus (GHPR4)	Parechovirus	Adenovirus	Bocavirus
RPP-3	3	Parainfluenza Virus 1	Parainfluenza Virus 2	Parainfluenza Virus 4	Parainfluenza Virus 3
RPP-4	4	Ribonuclease P (RNase P)	Influenza A H1N1 Swine-like	Rhinovirus	Human Respiratory Syncytial Virus (RSV)
RPP-5	5	Influenza A Virus	Influenza B Virus	Rhinovirus/Enterovirus	SARS-CoV-2
RPP-6	6	Enterovirus A71	Mycoplasma pneumoniae Virus	BLANK	Enterovirus D68
RPP-7	7	Bordetella parapertussis	Bordetella pertussis/Bordetella holmesii	Klebsiella pneumoniae	Chlamydia pneumoniae
RPP-8	8	Mycoplasma cartarum	Methicillin Resistance Gene (mecA)	Staphylococcus aureus	Vancomycin Resistance Genes (Van A/B)
RPP-9	9	Haemophilus influenzae	Influenza B Virus	Mycoplasma pneumoniae	Streptococcus pyogenes/pertussis
RPP-10	10	Streptococcus pyogenes	Legionella Species	Streptococcus pneumoniae	Streptococcus agalactiae

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