

Quick guide for probe and primers preparation for the Influenza SARS-CoV-2 Multiplex ValuPanel Reagents

The Influenza SARS-CoV-2 Multiplex ValuPanel™ Reagents are probes and primer delivered in individual tubes in dried format. Please follow the steps below to prepare the probe and primer mixtures.

1. Re-suspend the oligonucleotides

Re-suspend the dried probes and primers to achieve 100 µM stock solutions. Re-suspension in TE buffer (10 mM Tris, 0.1 mM EDTA, pH 8) is recommended. For example, add 1 mL of TE buffer to a tube containing 100 nmol of oligonucleotide.

Amount of dried oligonucleotide per tube (nmol)	Re-suspension volume to achieve 100 µM stock (mL)
25	0.25
100	1
250	2.5
1000	10

2. Prepare probe and primer mixtures

Combine the 100 µM oligonucleotide stocks to achieve the final working concentrations for separate primer or probe mixtures, according to the following tables.

2.1. Tube 1 - primer mix

In a single tube, combine primers with TE buffer to prepare 1.5 mL primer mix, containing a total of 80 nmol of primer.

Primer	Volume of 100 µM primer stock (µL)	TE buffer (µL)
Influenza A Multiplex Fwd Primer 1	50	700
Influenza A Multiplex Fwd Primer 2	50	
Influenza A Multiplex Rev Primer 1	75	
Influenza A Multiplex Rev Primer 2	25	
Influenza B Multiplex Fwd Primer	100	
Influenza B Multiplex Rev Primer	100	
SARS-CoV-2 Multiplex Fwd Primer	100	
SARS-CoV-2 Multiplex Rev Primer	100	
Human RNase P Extraction Control Forward Primer	100	
Human RNase P Extraction Control Reverse Primer	100	
Total volume (µL)	800	700
	1500	

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2.2. Tube 2 - probe mix

In a single tube, combine probes with TE buffer to prepare 1.5 mL of probe mix, containing a total of 10 nmol of probe.

Probe	Volume of 100 μ M probe stock (μ L)	TE buffer (μ L)
Influenza A Multiplex Probe	25	1400
Influenza B Multiplex Probe	25	
SARS-CoV-2 Multiplex Probe	25	
Human RNase P Multiplex Probe	25	
Total volume (μL)	100	1400
	1500	

3. Use probe and primer mixtures as directed in the CDC Influenza SARS-CoV-2 (Flu SC2) Multiplex Assay [Instructions for Use](#).

For queries about this quick guide, please visit our [Influenza SARS-CoV-2 Multiplex ValuPanel Reagents](#) webpage or contact techsupport@lgcgroup.com.

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