

# Xpert® Xpress CoV-2/Flu/RSV plus Laboratory Information System Guidance

## **[REF] XP3COV2/FLU/RSV-10**

ADF:	<b>Xpress_SARS-CoV-2_Flu_RSV plus</b>	<b>Version 1</b>
ADF:	<b>Xpress_SARS-CoV-2_Flu plus</b>	<b>Version 1</b>
ADF:	<b>Xpress_SARS-CoV-2 plus</b>	<b>Version 1</b>

Purpose: To provide information that is helpful when enabling a Laboratory Information System (LIS) interface for the Xpert® Xpress CoV-2/Flu/RSV plus test on GeneXpert® Systems.

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If you need further assistance, please contact Cepheid Technical Support at  
<https://www.cepheid.com/en/about/contact-us> or email [techsupport@cepheid.com](mailto:techsupport@cepheid.com).

*This test has not been FDA cleared or approved. This test has been authorized by FDA under an EUA for use by authorized laboratories. This test has been authorized only for the simultaneous qualitative detection and differentiation of nucleic acids from SARS-CoV-2, influenza A, influenza B, and respiratory syncytial virus (RSV), and not for any other viruses or pathogens. This test is only authorized for the duration of the declaration that circumstances exist justifying the authorization of emergency use of in vitro diagnostics for detection and/or diagnosis of COVID-19 under Section 564(b)(1) of the Federal Food, Drug, and Cosmetic Act, 21 U.S.C. § 360bbb-3(b)(1), unless the authorization is terminated or revoked sooner.*



Cepheid®

For use under Emergency Use Authorization (EUA)

302-7279 Rev. A September 2021

## 1 Summary of Cepheid Products with a SARS-CoV-2 Assay

Xpert® Xpress CoV-2/Flu/RSV *plus* is the newest Cepheid assay for the GeneXpert® System that performs a SARS-CoV-2 test. The table below summarizes ALL of the tests that Cepheid has marketed with a SARS-CoV-2 assay to help clarify important differences related to LIS setup.

Product Name	Catalog Number	ADF	Launch Date
Xpert® Xpress SARS-CoV-2	XPRSARS-COV2-10	Xpert Xpress SARS-CoV-2	March 2020
Xpert® Xpress SARS-CoV-2/Flu/RSV	XPCOV2/FLU/RSV-10	Xpert Xpress_SARS-CoV-2_Flu_RSV	October 2020
		Xpert Xpress_SARS-CoV-2_Flu	
		Xpert Xpress_SARS-CoV-2	
Xpert® Xpress CoV-2/Flu/RSV <i>plus</i>	XP3COV2/FLU/RSV-10	Xpress SARS-CoV-2_Flu_RSV plus	September 2021
		Xpress SARS-CoV-2_Flu plus	
		Xpress SARS-CoV-2 plus	

## 2 Enabling the Assay and Host Communication in GeneXpert® System

### 2.1 Consult your LIS System Administrator:

Before making changes to your GeneXpert LIS interface settings, consult your LIS System Administrator.

### 2.2 Enable Host Communication:

If the GeneXpert System is not already configured for LIS host communication, follow the instructions in your GeneXpert System's User Guide: "Configuring Host Communications for an LIS."

### 2.3 Assay Host Test Code and Result Code Configuration:

Assay Host Test Code and Result Code must be defined in the GeneXpert System.

**Note:** When defining Host Test Codes and Result Codes, consider if your organization needs to use different Codes for different versions of Cepheid tests so that the test versions can be distinguished in your LIS.

**Note:** If the Xpert® Xpress SARS-CoV-2/Flu/RSV (previous non *plus* version) test has already been configured on a GeneXpert System with the suggested Codes below, then 1 of two options must be taken as an Assay Host Test Code can only be associated with a single ADF/Assay:

- A) If both assays must be enabled on a system simultaneously:
  - a. Create unique test codes for each Assay
- B) If only one Assay must be enabled on a System:
  - a. Ensure all existing supplies of the prior Assay version are used
  - b. Delete the prior Assay
  - c. Add the new Assay with the same test codes as the previous Assay

### 2.4 Suggested Assay Host Test Codes

ADF Name / Assay Name	ADF Version	Assay Host Test Code	Analyte Common Name	Result Code
Xpress SARS-CoV-2_Flu_RSV plus	1	SARSCOV2FLURSV	SARS-CoV-2	SARSCOV2
			FLU A	FLUA
			FLU B	FLUB
			RSV	RSV
Xpress SARS-CoV-2_Flu plus	1	SARSCOV2FLU	SARS-CoV-2	SARSCOV2
			FLU A	FLUA
			FLU B	FLUB
Xpress SARS-CoV-2 plus	1	<sup>1</sup> SARSCOV2_3	SARS-CoV-2	<sup>1</sup> N.A.

**1Note:** As a Single-Result Assay, the Assay Host Test Code will be the same as the Upload and Download Code.

### 3 Suggested LOINC Codes

Assay	Specimen <sup>1</sup>	Result Description	LOINC Code	Reference	Component	Property	Time	System	Scale	Method
Xpress SARS-CoV-2_Flu_RSV plus	<ul style="list-style-type: none"> <li>• NP Swabs</li> <li>• Nasal swabs</li> <li>• Nasal Wash / Aspirates</li> </ul>	Binary - Positive, Negative	95941-1	<a href="https://loinc.org/95941-1/">https://loinc.org/95941-1/</a>	Influenza virus A & Influenza virus B & SARS coronavirus 2 & Respiratory syncytial virus RNA panel	-	Pt	Respiratory	-	Probe.amp.tar
Xpress SARS-CoV-2_Flu plus	<ul style="list-style-type: none"> <li>• NP Swabs</li> <li>• Nasal swabs</li> <li>• Nasal Wash / Aspirates</li> </ul>	Binary - Positive, Negative	95422-2	<a href="https://loinc.org/95422-2/">https://loinc.org/95422-2/</a>	Influenza virus A & Influenza virus B & SARS coronavirus 2 RNA panel	-	Pt	Respiratory	-	Probe.amp.tar
Xpress SARS-CoV-2 plus	<ul style="list-style-type: none"> <li>• NP Swabs</li> <li>• Nasal swabs</li> <li>• Nasal Wash / Aspirates</li> </ul>	Binary - Positive, Negative	94500-6	<a href="https://loinc.org/94500-6/">https://loinc.org/94500-6/</a>	SARS Coronavirus 2 RNA	PrThr	Pt	Respiratory	Ord	Probe.amp.tar

<sup>1</sup>**Note:** The available LOINC codes do not differentiate specific respiratory specimen types. Refer to the Xpert Xpress SARS-CoV-2/FLU/RSV plus Instructions for Use (IFU) for specific specimen type information.

### 4 LOINC Code Rationale

- Xpress SARS-CoV-2\_Flu\_RSV plus is a single NAA test with probe detection from a respiratory specimen for the detection of SARS- CoV-2 and/or FLU and/or RSV.
- Xpress SARS-CoV-2\_Flu plus is a single NAA test with probe detection from a respiratory specimen for the detection of SARS-CoV-2 and/or Flu.
- Xpress SARS-CoV-2 plus is a single NAA test with probe detection from a respiratory specimen for the detection of SARS-CoV-2. <https://loinc.org/sars-coronavirus-2>

Please contact [ga@cepheid.com](mailto:ga@cepheid.com) with any questions regarding the use of this LOINC code with Xpert Xpress SARS-CoV-2/FLU/RSV plus.

## 5 Example Result Messages Overview

The table below includes a representative set of test result combinations from the “Xpert Xpress COV-2/FLU/RSV plus” cartridge and includes links to example LIS messages.

Depending on GeneXpert System and LIS settings, three distinct panels of results are possible:

1. **SARS-CoV-2, Flu A, Flu B and RSV:** Xpress SARS-CoV-2\_Flu\_RSV plus
2. **SARS-CoV-2, Flu A, Flu B:** Xpress SARS-CoV-2\_Flu plus
3. **SARS-CoV-2:** Xpress SARS-CoV-2 plus

### Summary of Example Messages for Panel: Xpress SARS-CoV-2\_Flu\_RSV plus

#	Analyte				Link to Example Messages	
	SARS-CoV-2	FLU A	FLU B	RSV	ASTM	HL7
1	Negative	Negative	Negative	Negative	<a href="#">Link</a>	<a href="#">Link</a>
2	<b>Positive</b>	Negative	Negative	Negative	<a href="#">Link</a>	<a href="#">Link</a>
3	Negative	<b>Positive</b>	Negative	Negative	<a href="#">Link</a>	<a href="#">Link</a>
4	Negative	Negative	<b>Positive</b>	Negative	<a href="#">Link</a>	<a href="#">Link</a>
5	Negative	Negative	Negative	<b>Positive</b>	<a href="#">Link</a>	<a href="#">Link</a>
6	<b>Positive</b>	<b>Positive</b>	<b>Positive</b>	<b>Positive</b>	<a href="#">Link</a>	<a href="#">Link</a>
7	Error	Error	Error	Error	<a href="#">Link</a>	<a href="#">Link</a>
8	Invalid	Invalid	Invalid	Invalid	<a href="#">Link</a>	<a href="#">Link</a>
9	No Result	No Result	No Result	No Result	<a href="#">Link</a>	<a href="#">Link</a>

### Summary of Example Messages for Panel: Xpress SARS-CoV-2\_Flu plus

#	Analyte				Link to Example Messages	
	SARS-CoV-2	FLU A	FLU B	RSV	ASTM	HL7
1	Negative	Negative	Negative	N.A.	<a href="#">Link</a>	<a href="#">Link</a>
2	<b>Positive</b>	Negative	Negative		<a href="#">Link</a>	<a href="#">Link</a>
3	Negative	<b>Positive</b>	Negative		<a href="#">Link</a>	<a href="#">Link</a>
4	Negative	Negative	<b>Positive</b>		<a href="#">Link</a>	<a href="#">Link</a>
5	<b>Positive</b>	<b>Positive</b>	<b>Positive</b>		<a href="#">Link</a>	<a href="#">Link</a>
6	Error	Error	Error		<a href="#">Link</a>	<a href="#">Link</a>
7	Invalid	Invalid	Invalid		<a href="#">Link</a>	<a href="#">Link</a>

### Summary of Example Messages for Panel: Xpress SARS-CoV-2 plus

#	Analyte				Link to Example Messages	
	SARS-CoV-2	FLU A	FLU B	RSV	ASTM	HL7
1	Negative	N.A.	N.A.	N.A.	<a href="#">Link</a>	<a href="#">Link</a>
2	<b>Positive</b>				<a href="#">Link</a>	<a href="#">Link</a>
3	Error				<a href="#">Link</a>	<a href="#">Link</a>
4	Invalid				<a href="#">Link</a>	<a href="#">Link</a>

## 6 Example Messages

These example messages can be used by an LIS interface analyst to understand the structure and content of Xpert Xpress CoV-2/Flu/RSV *plus* test results.

### 6.1 Example Messages for Panel: SARS-CoV-2, Flu A, Flu B and RSV

#### 6.1.1 Example ASTM Messages

##### 6.1.1.1 Example ASTM Message: “SARS-CoV-2: Negative, FLU A: Negative, FLU B: Negative, RSV: Negative”

SARS-CoV-2	FLU A	FLU B	RSV
Negative	Negative	Negative	Negative

```

H@|^GXM-33725387435|GeneXpert PC^GeneXpert 6.3|||||LIS||P|1394-97|20210820144159
P|1||||^|||||||||||||||||||
O|1|99999|^COVFLURSVPLUS|R|20210713160633|||||||ORH|||||||F
R|1|^COVFLURSVPLUS^SARSCOV2^Xpress SARS-CoV-2_Flu_RSV plus^1^SARS-CoV-2^NEGATIVE^|||||F|John Doe|20210713160633|20210713164224|CepheidVM-PC^804051^639127^472753131^00500^20211226|
R|2|^COVFLURSVPLUS^SARSCOV2^SARSCoV2^NEG^|||
R|3|^COVFLURSVPLUS^SARSCOV2^SARSCoV2^C|^\0.0|||
R|4|^COVFLURSVPLUS^SARSCOV2^SARSCoV2^EndPt|^1.0|||
R|5|^COVFLURSVPLUS^SARSCOV2^SPC|^PASS^|||
R|6|^COVFLURSVPLUS^SARSCOV2^SPC^C|^\29.3|||
R|7|^COVFLURSVPLUS^SARSCOV2^SPC^EndPt|^180.0|||
R|8|^COVFLURSVPLUS^FLUA^Xpress SARS-CoV-2_Flu_RSV plus^1^Flu A^NEGATIVE^|||||F|John Doe|20210713160633|20210713164224|CepheidVM-PC^804051^639127^472753131^00500^20211226|
R|9|^COVFLURSVPLUS^FLUA^Flu A 1^NEG^|||
R|10|^COVFLURSVPLUS^FLUA^Flu A 1^C|^\0.0|||
R|11|^COVFLURSVPLUS^FLUA^Flu A 1^EndPt|^2.0|||
R|12|^COVFLURSVPLUS^FLUA^Flu A 2^NEG^|||
R|13|^COVFLURSVPLUS^FLUA^Flu A 2^C|^\0.0|||
R|14|^COVFLURSVPLUS^FLUA^Flu A 2^EndPt|^1.0|||
R|15|^COVFLURSVPLUS^FLUA^SPC|^PASS^|||
R|16|^COVFLURSVPLUS^FLUA^SPC^C|^\29.3|||
R|17|^COVFLURSVPLUS^FLUA^SPC^EndPt|^180.0|||
R|18|^COVFLURSVPLUS^FLUB^Xpress SARS-CoV-2_Flu_RSV plus^1^Flu B^NEGATIVE^|||||F|John Doe|20210713160633|20210713164224|CepheidVM-PC^804051^639127^472753131^00500^20211226|
R|19|^COVFLURSVPLUS^FLUB^Flu B^NEG^|||
R|20|^COVFLURSVPLUS^FLUB^Flu B^C|^\0.0|||
R|21|^COVFLURSVPLUS^FLUB^Flu B^EndPt|^1.0|||
R|22|^COVFLURSVPLUS^FLUB^SPC|^PASS^|||
R|23|^COVFLURSVPLUS^FLUB^SPC^C|^\29.3|||
R|24|^COVFLURSVPLUS^FLUB^SPC^EndPt|^180.0|||
R|25|^COVFLURSVPLUS^RSV^Xpress SARS-CoV-2_Flu_RSV plus^1^RSV^NEGATIVE^|||||F|John Doe|20210713160633|20210713164224|CepheidVM-PC^804051^639127^472753131^00500^20211226|
R|26|^COVFLURSVPLUS^RSV^RSV^NEG^|||
R|27|^COVFLURSVPLUS^RSV^RSV^C|^\0.0|||
R|28|^COVFLURSVPLUS^RSV^SPC|^PASS^|||
R|29|^COVFLURSVPLUS^RSV^SPC^C|^\29.3|||
R|30|^COVFLURSVPLUS^RSV^SPC^C|^\29.3|||
R|31|^COVFLURSVPLUS^RSV^SPC^EndPt|^180.0|||
L|1|N

```

### 6.1.1.2 Example ASTM Message: “SARS-CoV-2: Positive, FLU A: Negative, FLU B: Negative, RSV: Negative”

SARS-CoV-2	FLU A	FLU B	RSV
Positive	Negative	Negative	Negative

```

H|@|^GXM-84876003004||GeneXpert PC^GeneXpert^6.3||||LIS||P|1394-97|20210820142512
P|1|||||^|||||||||||||||
O|11|_CoV2_c|^COVFLURSVPLUS|R|20210713122506||||||ORH|||||||F
R|1|^COVFLURSVPLUS^^SARSCOV2^Xpress SARS-CoV-2_Flu_RSV plus^1^SARS-CoV-2^|POS^|||
R|2|^COVFLURSVPLUS^^SARSCOV2^^SARS-CoV-2^|POS^|||
R|3|^COVFLURSVPLUS^^SARSCOV2^^SARS-CoV-2^Ct|^31.2|||
R|4|^COVFLURSVPLUS^^SARSCOV2^^SARS-CoV-2^EndPt|^440.0|||
R|5|^COVFLURSVPLUS^^SARSCOV2^^SPC^|NA^|||
R|6|^COVFLURSVPLUS^^SARSCOV2^^SPC^Ct|^29.4|||
R|7|^COVFLURSVPLUS^^SARSCOV2^^SPC^EndPt|^149.0|||
R|8|^COVFLURSVPLUS^^FLUA^Xpress SARS-CoV-2_Flu_RSV plus^1^Flu A^NEGATIVE^|||||F||John Doe|20210713122506|20210713130050|CepheidVM-PC^702201^625015^472753125^00500^20211226|
R|9|^COVFLURSVPLUS^^FLUA^Flu A 1^NEG^|||
R|10|^COVFLURSVPLUS^^FLUA^Flu A 1^Ct|^0.0|||
R|11|^COVFLURSVPLUS^^FLUA^Flu A 1^EndPt|^1.0|||
R|12|^COVFLURSVPLUS^^FLUA^Flu A 2^NEG^|||
R|13|^COVFLURSVPLUS^^FLUA^Flu A 2^Ct|^0.0|||
R|14|^COVFLURSVPLUS^^FLUA^Flu A 2^EndPt|^0.0|||
R|15|^COVFLURSVPLUS^^FLUA^SPC^|NA^|||
R|16|^COVFLURSVPLUS^^FLUA^SPC^Ct|^29.4|||
R|17|^COVFLURSVPLUS^^FLUA^SPC^EndPt|^149.0|||
R|18|^COVFLURSVPLUS^^FLUB^Xpress SARS-CoV-2_Flu_RSV plus^1^Flu B^NEGATIVE^|||||F||John Doe|20210713122506|20210713130050|CepheidVM-PC^702201^625015^472753125^00500^20211226|
R|19|^COVFLURSVPLUS^^FLUB^Flu B^NEG^|||
R|20|^COVFLURSVPLUS^^FLUB^Flu B^Ct|^0.0|||
R|21|^COVFLURSVPLUS^^FLUB^Flu B^EndPt|^2.0|||
R|22|^COVFLURSVPLUS^^FLUB^SPC^|NA^|||
R|23|^COVFLURSVPLUS^^FLUB^SPC^Ct|^29.4|||
R|24|^COVFLURSVPLUS^^FLUB^SPC^EndPt|^149.0|||
R|25|^COVFLURSVPLUS^^RSV^Xpress SARS-CoV-2_Flu_RSV plus^1^RSV^NEG^|||F||John Doe|20210713122506|20210713130050|CepheidVM-PC^702201^625015^472753125^00500^20211226|
R|26|^COVFLURSVPLUS^^RSV^RSV^|NEG^|||
R|27|^COVFLURSVPLUS^^RSV^RSV^Ct|^0.0|||
R|28|^COVFLURSVPLUS^^RSV^RSV^EndPt|^1.0|||
R|29|^COVFLURSVPLUS^^RSV^SPC^|NA^|||
R|30|^COVFLURSVPLUS^^RSV^SPC^Ct|^29.4|||
R|31|^COVFLURSVPLUS^^RSV^SPC^EndPt|^149.0|||
L|1|N

```

### 6.1.1.3 Example ASTM Message: “SARS-CoV-2: Negative, FLU A: Positive, FLU B: Negative, RSV: Negative”

SARS-CoV-2	FLU A	FLU B	RSV
Negative	Positive	Negative	Negative

```

H|@|^GXM-55852815431||GeneXpert PC^GeneXpert^6.3||||LIS||P|1394-97|20210820142652
P|1|||||^|||||||||||||||
O|12_FluA_c||^COVFLURSVPLUS|R|20210713122619||||||ORH|||||||F
R|1|^COVFLURSVPLUS^SARSCOV2^Xpress SARS-CoV-2_Flu_RSV plus^1^SARS-CoV-2^NEGATIVE^|||||F|John Doe|20210713122619|20210713130147|CepheidVM-PC^701866^613237^472753123^00500^20211226|
R|2|^COVFLURSVPLUS^SARSCOV2^SARS-CoV-2^NEG^|||
R|3|^COVFLURSVPLUS^SARSCOV2^SARS-CoV-2^Ct|0.0|||
R|4|^COVFLURSVPLUS^SARSCOV2^SARS-CoV-2^EndPt|^2.0|||
R|5|^COVFLURSVPLUS^SARSCOV2^SPC|NA^|||
R|6|^COVFLURSVPLUS^SARSCOV2^SPC^Ct|^29.5|||
R|7|^COVFLURSVPLUS^SARSCOV2^SPC^EndPt|^151.0|||
R|8|^COVFLURSVPLUS^FLUA^Xpress SARS-CoV-2_Flu_RSV plus^1^Flu A^POSITIVE^|||||F|John Doe|20210713122619|20210713130147|CepheidVM-PC^701866^613237^472753123^00500^20211226|
R|9|^COVFLURSVPLUS^FLUA^Flu A 1^POS^|||
R|10|^COVFLURSVPLUS^FLUA^Flu A 1^Ct|^30.1|||
R|11|^COVFLURSVPLUS^FLUA^Flu A 1^EndPt|^725.0|||
R|12|^COVFLURSVPLUS^FLUA^Flu A 2^POS^|||
R|13|^COVFLURSVPLUS^FLUA^Flu A 2^Ct|^34.0|||
R|14|^COVFLURSVPLUS^FLUA^Flu A 2^EndPt|^219.0|||
R|15|^COVFLURSVPLUS^FLUA^SPC|NA^|||
R|16|^COVFLURSVPLUS^FLUA^SPC^Ct|^29.5|||
R|17|^COVFLURSVPLUS^FLUA^SPC^EndPt|^151.0|||
R|18|^COVFLURSVPLUS^FLUB^Xpress SARS-CoV-2_Flu_RSV plus^1^Flu B^NEGATIVE^|||||F|John Doe|20210713122619|20210713130147|CepheidVM-PC^701866^613237^472753123^00500^20211226|
R|19|^COVFLURSVPLUS^FLUB^Flu B^NEG^|||
R|20|^COVFLURSVPLUS^FLUB^Flu B^Ct|^0.0|||
R|21|^COVFLURSVPLUS^FLUB^Flu B^EndPt|^4.0|||
R|22|^COVFLURSVPLUS^FLUB^SPC|NA^|||
R|23|^COVFLURSVPLUS^FLUB^SPC^Ct|^29.5|||
R|24|^COVFLURSVPLUS^FLUB^SPC^EndPt|^151.0|||
R|25|^COVFLURSVPLUS^RSV^Xpress SARS-CoV-2_Flu_RSV plus^1^RSV^NEGATIVE^|||||F|John Doe|20210713122619|20210713130147|CepheidVM-PC^701866^613237^472753123^00500^20211226|
R|26|^COVFLURSVPLUS^RSV^RSV^NEG^|||
R|27|^COVFLURSVPLUS^RSV^RSV^Ct|0.0|||
R|28|^COVFLURSVPLUS^RSV^RSV^EndPt|^1.0|||
R|29|^COVFLURSVPLUS^RSV^SPC|NA^|||
R|30|^COVFLURSVPLUS^RSV^SPC^Ct|^29.5|||
R|31|^COVFLURSVPLUS^RSV^SPC^EndPt|^151.0|||
L|1|N

```

#### 6.1.1.4 Example ASTM Message: “SARS-CoV-2: Negative, FLU A: Negative, FLU B: Positive, RSV: Negative”

SARS-CoV-2	FLU A	FLU B	RSV
Negative	Negative	Positive	Negative

```

H|@|^GXM-61388182688||GeneXpert PC^GeneXpert^6.3||||LIS||P|1394-97|20210820142739
P|1|||^|||||||||||||||||||
O|1|3_FluB_c|^^COVFLURSVPLUS|R|20210713122741|||||||ORH|||||||F
R|1|^COVFLURSVPLUS^SARSCOV2^Xpress SARS-CoV-2_Flu_RSV plus^1^SARS-CoV-2^NEGATIVE^|||||F|John Doe|20210713122741|20210713130259|CepheidVM-PC^700475^657192^472753120^00500^20211226|
R|2|^COVFLURSVPLUS^SARSCOV2^SARS-CoV-2^|NEG^|||
R|3|^COVFLURSVPLUS^SARSCOV2^SARS-CoV-2^Ct|^0.0|||
R|4|^COVFLURSVPLUS^SARSCOV2^SARS-CoV-2^EndPt|^2.0|||
R|5|^COVFLURSVPLUS^SARSCOV2^SPC^|NA^|||
R|6|^COVFLURSVPLUS^SARSCOV2^SPC^Ct|^30.1|||
R|7|^COVFLURSVPLUS^SARSCOV2^SPC^EndPt|^147.0|||
R|8|^COVFLURSVPLUS^FLUA^Xpress SARS-CoV-2_Flu_RSV plus^1^Flu A^NEGATIVE^|||||F|John Doe|20210713122741|20210713130259|CepheidVM-PC^700475^657192^472753120^00500^20211226|
R|9|^COVFLURSVPLUS^FLUA^Flu A 1^|NEG^|||
R|10|^COVFLURSVPLUS^FLUA^Flu A 1^Ct|^0.0|||
R|11|^COVFLURSVPLUS^FLUA^Flu A 1^EndPt|^2.0|||
R|12|^COVFLURSVPLUS^FLUA^Flu A 2^|NEG^|||
R|13|^COVFLURSVPLUS^FLUA^Flu A 2^Ct|^0.0|||
R|14|^COVFLURSVPLUS^FLUA^Flu A 2^EndPt|^1.0|||
R|15|^COVFLURSVPLUS^FLUA^SPC^|NA^|||
R|16|^COVFLURSVPLUS^FLUA^SPC^Ct|^30.1|||
R|17|^COVFLURSVPLUS^FLUA^SPC^EndPt|^147.0|||
R|18|^COVFLURSVPLUS^FLUB^Xpress SARS-CoV-2_Flu_RSV plus^1^Flu B^POSITIVE^|||||F|John Doe|20210713122741|20210713130259|CepheidVM-PC^700475^657192^472753120^00500^20211226|
R|19|^COVFLURSVPLUS^FLUB^Flu B^|POS^|||
R|20|^COVFLURSVPLUS^FLUB^Flu B^Ct|^29.3|||
R|21|^COVFLURSVPLUS^FLUB^Flu B^EndPt|^792.0|||
R|22|^COVFLURSVPLUS^FLUB^SPC^|NA^|||
R|23|^COVFLURSVPLUS^FLUB^SPC^Ct|^30.1|||
R|24|^COVFLURSVPLUS^FLUB^SPC^EndPt|^147.0|||
R|25|^COVFLURSVPLUS^RSV^Xpress SARS-CoV-2_Flu_RSV plus^1^RSV^NEGATIVE^|||||F|John Doe|20210713122741|20210713130259|CepheidVM-PC^700475^657192^472753120^00500^20211226|
R|26|^COVFLURSVPLUS^RSV^RSV^|NEG^|||
R|27|^COVFLURSVPLUS^RSV^RSV^Ct|^0.0|||
R|28|^COVFLURSVPLUS^RSV^RSV^EndPt|^1.0|||
R|29|^COVFLURSVPLUS^RSV^SPC^|NA^|||
R|30|^COVFLURSVPLUS^RSV^SPC^Ct|^30.1|||
R|31|^COVFLURSVPLUS^RSV^SPC^EndPt|^147.0|||
L|1|N

```

### 6.1.1.5 Example ASTM Message: “SARS-CoV-2: Negative, FLU A: Negative, FLU B: Negative, RSV: Positive”

SARS-CoV-2	FLU A	FLU B	RSV
Negative	Negative	Negative	Positive

```

H|@|^GXM-41700432855||GeneXpert PC^GeneXpert^6.3||||LIS||P|1394-97|20210809121213
P|1|||||^|||||||||||||||
O|14_RSV_c|^^COVFLURSVPLUS|R|20210713122840||||||ORH||||||F| John Doe |20210713122840|20210713130456|CepheidVM-PC^703691^723176^472753117^00500^20211226|
R|2|^COVFLURSVPLUS^^SARSCOV2^Xpress SARS-CoV-2_Flu_RSV plus^1^SARS-CoV-2^NEGATIVE^||||F| John Doe |20210713122840|20210713130456|CepheidVM-PC^703691^723176^472753117^00500^20211226|
R|3|^COVFLURSVPLUS^^SARSCOV2^^SARS-CoV-2^NEG^|||
R|4|^COVFLURSVPLUS^^SARSCOV2^^SARS-CoV-2^EndPt|^0.0|||
R|5|^COVFLURSVPLUS^^SARSCOV2^^SPC^NA^|||
R|6|^COVFLURSVPLUS^^SARSCOV2^^SPC^Ct|^28.7|||
R|7|^COVFLURSVPLUS^^SARSCOV2^^SPC^EndPt|^166.0|||
R|8|^COVFLURSVPLUS^^FLUA^Xpress SARS-CoV-2_Flu_RSV plus^1^Flu A^NEGATIVE^||||F| John Doe |20210713122840|20210713130456|CepheidVM-PC^703691^723176^472753117^00500^20211226|
R|9|^COVFLURSVPLUS^^FLUA^Flu A 1^NEG^|||
R|10|^COVFLURSVPLUS^^FLUA^Flu A 1^Ct|^0.0|||
R|11|^COVFLURSVPLUS^^FLUA^Flu A 1^EndPt|^0.0|||
R|12|^COVFLURSVPLUS^^FLUA^Flu A 2^NEG^|||
R|13|^COVFLURSVPLUS^^FLUA^Flu A 2^Ct|^0.0|||
R|14|^COVFLURSVPLUS^^FLUA^Flu A 2^EndPt|^~19.0|||
R|15|^COVFLURSVPLUS^^FLUA^SPC^NA^|||
R|16|^COVFLURSVPLUS^^FLUA^SPC^Ct|^28.7|||
R|17|^COVFLURSVPLUS^^FLUA^SPC^EndPt|^166.0|||
R|18|^COVFLURSVPLUS^^FLUB^Xpress SARS-CoV-2_Flu_RSV plus^1^Flu B^NEGATIVE^||||F| John Doe |20210713122840|20210713130456|CepheidVM-PC^703691^723176^472753117^00500^20211226|
R|19|^COVFLURSVPLUS^^FLUB^Flu B^NEG^|||
R|20|^COVFLURSVPLUS^^FLUB^Flu B^Ct|^0.0|||
R|21|^COVFLURSVPLUS^^FLUB^Flu B^EndPt|^~1.0|||
R|22|^COVFLURSVPLUS^^FLUB^SPC^NA^|||
R|23|^COVFLURSVPLUS^^FLUB^SPC^Ct|^~28.7|||
R|24|^COVFLURSVPLUS^^FLUB^SPC^EndPt|^~166.0|||
R|25|^COVFLURSVPLUS^^RSV^Xpress SARS-CoV-2_Flu_RSV plus^1^RSV^POSITIVE^||||F| John Doe |20210713122840|20210713130456|CepheidVM-PC^703691^723176^472753117^00500^20211226|
R|26|^COVFLURSVPLUS^^RSV^RSV^POS^|||
R|27|^COVFLURSVPLUS^^RSV^RSV^Ct|^29.4|||
R|28|^COVFLURSVPLUS^^RSV^RSV^EndPt|^~380.0|||
R|29|^COVFLURSVPLUS^^RSV^SPC^NA^|||
R|30|^COVFLURSVPLUS^^RSV^SPC^Ct|^~28.7|||
R|31|^COVFLURSVPLUS^^RSV^SPC^EndPt|^~166.0|||
L|N

```

### 6.1.1.6 Example ASTM Message: “SARS-CoV-2: Positive, FLU A: Positive, FLU B: Positive, RSV: Positive”

SARS-CoV-2	FLU A	FLU B	RSV
Positive	Positive	Positive	Positive

```

H|@|^GXM-33541343861||GeneXpert PC^GeneXpert^6.3||||LIS||P|1394-97|20210809121212
P|1|||||^|||||||||||||||
O|1|15_CoV2_FluA_FluB_RSV_cj|^COVFLURSVPLUS|R|20210713123523||||||ORH|||||||
R|1|^COVFLURSVPLUS^SARS-CoV-2^Xpress SARS-CoV-2_Flu_RSV plus^1^SARS-CoV-2^|POSITIVE^||||F|John Doe|20210713123523|20210713131205|CepheidVM-PC^714106^610876^472753084^00500^20211226|
R|2|^COVFLURSVPLUS^SARS-CoV-2^SARS-CoV-2^|POS^|||
R|3|^COVFLURSVPLUS^SARS-CoV-2^SARS-CoV-2^Ct|^30.6|||
R|4|^COVFLURSVPLUS^SARS-CoV-2^SARS-CoV-2^EndPt|^449.0|||
R|5|^COVFLURSVPLUS^SARS-CoV-2^SPC|^NA^|||
R|6|^COVFLURSVPLUS^SARS-CoV-2^SPC^Ct|^28.9|||
R|7|^COVFLURSVPLUS^SARS-CoV-2^SPC^EndPt|^134.0|||
R|8|^COVFLURSVPLUS^FLUA^Xpress SARS-CoV-2_Flu_RSV plus^1^Flu A^|POSITIVE^||||F|John Doe|20210713123523|20210713131205|CepheidVM-PC^714106^610876^472753084^00500^20211226|
R|9|^COVFLURSVPLUS^FLUA^Flu A 1^|POS^|||
R|10|^COVFLURSVPLUS^FLUA^Flu A 1^Ct|^29.3|||
R|11|^COVFLURSVPLUS^FLUA^Flu A 1^EndPt|^601.0|||
R|12|^COVFLURSVPLUS^FLUA^Flu A 2^|POS^|||
R|13|^COVFLURSVPLUS^FLUA^Flu A 2^Ct|^33.2|||
R|14|^COVFLURSVPLUS^FLUA^Flu A 2^EndPt|^200.0|||
R|15|^COVFLURSVPLUS^FLUA^SPC|^NA^|||
R|16|^COVFLURSVPLUS^FLUA^SPC^Ct|^28.9|||
R|17|^COVFLURSVPLUS^FLUA^SPC^EndPt|^134.0|||
R|18|^COVFLURSVPLUS^FLUB^Xpress SARS-CoV-2_Flu_RSV plus^1^Flu B^|POSITIVE^||||F|John Doe|20210713123523|20210713131205|CepheidVM-PC^714106^610876^472753084^00500^20211226|
R|19|^COVFLURSVPLUS^FLUB^Flu B^|POS^|||
R|20|^COVFLURSVPLUS^FLUB^Flu B^Ct|^28.8|||
R|21|^COVFLURSVPLUS^FLUB^Flu B^EndPt|^658.0|||
R|22|^COVFLURSVPLUS^FLUB^SPC|^NA^|||
R|23|^COVFLURSVPLUS^FLUB^SPC^Ct|^28.9|||
R|24|^COVFLURSVPLUS^FLUB^SPC^EndPt|^134.0|||
R|25|^COVFLURSVPLUS^RSV^Xpress SARS-CoV-2_Flu_RSV plus^1^RSV^|POSITIVE^||||F| John Doe |20210713123523|20210713131205|CepheidVM-PC^714106^610876^472753084^00500^20211226|
R|26|^COVFLURSVPLUS^RSV^RSV^|POS^|||
R|27|^COVFLURSVPLUS^RSV^RSV^Ct|^29.2|||
R|28|^COVFLURSVPLUS^RSV^RSV^EndPt|^373.0|||
R|29|^COVFLURSVPLUS^RSV^SPC|^NA^|||
R|30|^COVFLURSVPLUS^RSV^SPC^Ct|^28.9|||
R|31|^COVFLURSVPLUS^RSV^SPC^EndPt|^134.0|||
L|1|N

```

### 6.1.1.7 Example ASTM Message: “SARS-CoV-2: Error”

SARS-CoV-2	FLU A	FLU B	RSV
Error	Error	Error	Error

```

H@^|GXM-30005312858||GeneXpert PC^GeneXpert^6.3||||LIS||P|1394-97|20210809121209
P|1|||||^|||||||||||||||F
O|1|Test|^^COVFLURSVPLUS|R|20210713174434|||||ORH|||||F| John Doe|20210713174434|20210713174700|CepheidVM-PC^804051^634358^472753074^00500^20211226|
C|1|||Error^2125Operation terminated^Error 2125: Termination Error - Insufficient Volume: 16, 50, 0, 17^20210713174646|N
R|2|^COVFLURSVPLUS^^SARSCOV2^Xpress SARS-CoV-2_Flu_RSV plus^1^SARS-CoV-2^|ERROR|^||||F| John Doe|20210713174434|20210713174700|CepheidVM-PC^804051^634358^472753074^00500^20211226|
C|1|||Error^2125Operation terminated^Error 2125: Termination Error - Insufficient Volume: 16, 50, 0, 17^20210713174646|N
R|3|^COVFLURSVPLUS^^SARSCOV2^^SARS-CoV-2^Ct|^0.0||
R|4|^COVFLURSVPLUS^^SARSCOV2^^SARS-CoV-2^EndPt|^0.0||
R|5|^COVFLURSVPLUS^^SARSCOV2^^SPC^|NO RESULT|^||
R|6|^COVFLURSVPLUS^^SARSCOV2^^SPC^Ct|^0.0||
R|7|^COVFLURSVPLUS^^SARSCOV2^^SPC^EndPt|^0.0||
R|8|^COVFLURSVPLUS^^FLUA^Xpress SARS-CoV-2_Flu_RSV plus^1^Flu A^|ERROR|^||||F| John Doe |20210713174434|20210713174700|CepheidVM-PC^804051^634358^472753074^00500^20211226|
C|1|||Error^2125Operation terminated^Error 2125: Termination Error - Insufficient Volume: 16, 50, 0, 17^20210713174646|N
R|9|^COVFLURSVPLUS^^FLUA^|NO RESULT|^||
R|10|^COVFLURSVPLUS^^FLUA^|Flu A 1^Ct|^0.0||
R|11|^COVFLURSVPLUS^^FLUA^|Flu A 1^EndPt|^0.0||
R|12|^COVFLURSVPLUS^^FLUA^|NO RESULT|^||
R|13|^COVFLURSVPLUS^^FLUA^|Flu A 2^Ct|^0.0||
R|14|^COVFLURSVPLUS^^FLUA^|Flu A 2^EndPt|^0.0||
R|15|^COVFLURSVPLUS^^FLUA^|NO RESULT|^||
R|16|^COVFLURSVPLUS^^FLUA^|SPC^Ct|^0.0||
R|17|^COVFLURSVPLUS^^FLUA^|SPC^EndPt|^0.0||
R|18|^COVFLURSVPLUS^^FLUB^Xpress SARS-CoV-2_Flu_RSV plus^1^Flu B^|ERROR|^||||F| John Doe |20210713174434|20210713174700|CepheidVM-PC^804051^634358^472753074^00500^20211226|
C|1|||Error^2125Operation terminated^Error 2125: Termination Error - Insufficient Volume: 16, 50, 0, 17^20210713174646|N
R|19|^COVFLURSVPLUS^^FLUB^|NO RESULT|^||
R|20|^COVFLURSVPLUS^^FLUB^|Flu B^Ct|^0.0||
R|21|^COVFLURSVPLUS^^FLUB^|Flu B^EndPt|^0.0||
R|22|^COVFLURSVPLUS^^FLUB^|SPC^|NO RESULT|^||
R|23|^COVFLURSVPLUS^^FLUB^|SPC^Ct|^0.0||
R|24|^COVFLURSVPLUS^^FLUB^|SPC^EndPt|^0.0||
R|25|^COVFLURSVPLUS^^RSV^Xpress SARS-CoV-2_Flu_RSV plus^1^RSV^|ERROR|^||||F| John Doe |20210713174434|20210713174700|CepheidVM-PC^804051^634358^472753074^00500^20211226|
C|1|||Error^2125Operation terminated^Error 2125: Termination Error - Insufficient Volume: 16, 50, 0, 17^20210713174646|N
R|26|^COVFLURSVPLUS^^RSV^|NO RESULT|^||
R|27|^COVFLURSVPLUS^^RSV^|RSV^Ct|^0.0||
R|28|^COVFLURSVPLUS^^RSV^|RSV^EndPt|^0.0||
R|29|^COVFLURSVPLUS^^RSV^|SPC^|NO RESULT|^||
R|30|^COVFLURSVPLUS^^RSV^|SPC^Ct|^0.0||
R|31|^COVFLURSVPLUS^^RSV^|SPC^EndPt|^0.0||
L|1|N

```

### 6.1.1.8 Example ASTM Message: “SARS-CoV-2: Invalid”

SARS-CoV-2	FLU A	FLU B	RSV
Invalid	Invalid	Invalid	Invalid

```

H|@|^|GXM-74166045803||GeneXpert PC^GeneXpert^Dx6.3_Demo||||astm3client||P|1394-97|20210811172056
P|1|||||||||||||||||||||||
O|1|Test-1|^COVFLURSVPLUS|R|20210804145311||||||ORH||||||F|
R|1|^COVFLURSVPLUS^SARSCOV2^Xpress SARS-CoV-2_Flu_RSV plus^1^SARS-CoV-2^|INVALID^||||F|| John Doe |20210804145311|20210804152925|CEPSNYLPREM4562^714106^778691^472753074^00500^20211226|
R|2|^COVFLURSVPLUS^SARSCOV2^SARS-CoV-2^|INVALID^|||
R|3|^COVFLURSVPLUS^SARSCOV2^SARS-CoV-2^Ct|^0.0|||
R|4|^COVFLURSVPLUS^SARSCOV2^SARS-CoV-2^EndPt|^2.0|||
R|5|^COVFLURSVPLUS^SARSCOV2^SPC|^FAIL^|||
R|6|^COVFLURSVPLUS^SARSCOV2^SPC^Ct|^0.0|||
R|7|^COVFLURSVPLUS^SARSCOV2^SPC^EndPt|^0.0|||
R|8|^COVFLURSVPLUS^FLUA^Xpress SARS-CoV-2_Flu_RSV plus^1^Flu A^|INVALID^||||F|| John Doe |20210804145311|20210804152925|CEPSNYLPREM4562^714106^778691^472753074^00500^20211226|
R|9|^COVFLURSVPLUS^FLUA^|Flu A 1|^INVALID^|||
R|10|^COVFLURSVPLUS^FLUA^|Flu A 1^Ct|^0.0|||
R|11|^COVFLURSVPLUS^FLUA^|Flu A 1^EndPt|^2.0|||
R|12|^COVFLURSVPLUS^FLUA^|Flu A 2|^INVALID^|||
R|13|^COVFLURSVPLUS^FLUA^|Flu A 2^Ct|^0.0|||
R|14|^COVFLURSVPLUS^FLUA^|Flu A 2^EndPt|^1.0|||
R|15|^COVFLURSVPLUS^FLUA^|SPC|^FAIL^|||
R|16|^COVFLURSVPLUS^FLUA^|SPC^Ct|^0.0|||
R|17|^COVFLURSVPLUS^FLUA^|SPC^EndPt|^0.0|||
R|18|^COVFLURSVPLUS^FLUB^Xpress SARS-CoV-2_Flu_RSV plus^1^Flu B^|INVALID^||||F|| John Doe |20210804145311|20210804152925|CEPSNYLPREM4562^714106^778691^472753074^00500^20211226|
R|19|^COVFLURSVPLUS^FLUB^|Flu B|^INVALID^|||
R|20|^COVFLURSVPLUS^FLUB^|Flu B^Ct|^0.0|||
R|21|^COVFLURSVPLUS^FLUB^|Flu B^EndPt|^1.0|||
R|22|^COVFLURSVPLUS^FLUB^|SPC|^FAIL^|||
R|23|^COVFLURSVPLUS^FLUB^|SPC^Ct|^0.0|||
R|24|^COVFLURSVPLUS^FLUB^|SPC^EndPt|^0.0|||
R|25|^COVFLURSVPLUS^RSV^Xpress SARS-CoV-2_Flu_RSV plus^1^RSV^|INVALID^||||F|| John Doe |20210804145311|20210804152925|CEPSNYLPREM4562^714106^778691^472753074^00500^20211226|
R|26|^COVFLURSVPLUS^RSV^|RSV|^INVALID^|||
R|27|^COVFLURSVPLUS^RSV^|RSV^Ct|^0.0|||
R|28|^COVFLURSVPLUS^RSV^|RSV^EndPt|^2.0|||
R|29|^COVFLURSVPLUS^RSV^|SPC|^FAIL^|||
R|30|^COVFLURSVPLUS^RSV^|SPC^Ct|^0.0|||
R|31|^COVFLURSVPLUS^RSV^|SPC^EndPt|^0.0|||
L|1|N

```

### 6.1.1.9 Example ASTM Message: “SARS-CoV-2: No Result”

SARS-CoV-2	FLU A	FLU B	RSV
No Result	No Result	No Result	No Result

```

H|@|^GXM-04617177528||GeneXpert PC^GeneXpert^6.3||||LIS||P|1394-97|20210809121210
P|1||||^M|||||||||||||||||
O|1|^test|^COVFLURSVPLUS|R|20210713164557||||||ORH|||||||F
R|1|^COVFLURSVPLUS^SARSCOV2^Xpress SARS-CoV-2_Flu_RSV plus^1^SARS-CoV-2^|NO RESULT - REPEAT TEST^|||||F|| John Doe |20210713164557|20210713164741|CepheidVM-
PC^812422^647156^472753073^00500^20211226
C|1|||Error^2125^Operation terminated^Error 2125: Termination Error - Insufficient Volume: 15, 50, 0, 16^20210713164809|N
R|2|^COVFLURSVPLUS^SARSCOV2^SARS-CoV-2^|NO RESULT^|||
R|3|^COVFLURSVPLUS^SARSCOV2^SARS-CoV-2^Ct|^0.0|||
R|4|^COVFLURSVPLUS^SARSCOV2^SARS-CoV-2^EndPt|^0.0|||
R|5|^COVFLURSVPLUS^SARSCOV2^SPC^|NO RESULT^|||
R|6|^COVFLURSVPLUS^SARSCOV2^SPC^Ct|^0.0|||
R|7|^COVFLURSVPLUS^SARSCOV2^SPC^EndPt|^0.0|||
R|8|^COVFLURSVPLUS^FLUA^Xpress SARS-CoV-2_Flu_RSV plus^1^Flu A^|NO RESULT - REPEAT TEST^|||||F|| John Doe |20210713164557|20210713164741|CepheidVM-PC^812422^647156^472753073^00500^20211226
C|1|||Error^2125^Operation terminated^Error 2125: Termination Error - Insufficient Volume: 15, 50, 0, 16^20210713164809|N
R|9|^COVFLURSVPLUS^FLUA^|NO RESULT^|||
R|10|^COVFLURSVPLUS^FLUA^Flu A 1^Ct|^0.0|||
R|11|^COVFLURSVPLUS^FLUA^Flu A 1^EndPt|^0.0|||
R|12|^COVFLURSVPLUS^FLUA^Flu A 2^|NO RESULT^|||
R|13|^COVFLURSVPLUS^FLUA^Flu A 2^Ct|^0.0|||
R|14|^COVFLURSVPLUS^FLUA^Flu A 2^EndPt|^0.0|||
R|15|^COVFLURSVPLUS^FLUA^SPC^|NO RESULT^|||
R|16|^COVFLURSVPLUS^FLUA^SPC^Ct|^0.0|||
R|17|^COVFLURSVPLUS^FLUA^SPC^EndPt|^0.0|||
R|18|^COVFLURSVPLUS^FLUB^Xpress SARS-CoV-2_Flu_RSV plus^1^Flu B^|NO RESULT - REPEAT TEST^|||||F|| John Doe |20210713164557|20210713164741|CepheidVM-PC^812422^647156^472753073^00500^20211226
C|1|||Error^2125^Operation terminated^Error 2125: Termination Error - Insufficient Volume: 15, 50, 0, 16^20210713164809|N
R|19|^COVFLURSVPLUS^FLUB^|NO RESULT^|||
R|20|^COVFLURSVPLUS^FLUB^Flu B^Ct|^0.0|||
R|21|^COVFLURSVPLUS^FLUB^Flu B^EndPt|^0.0|||
R|22|^COVFLURSVPLUS^FLUB^SPC^|NO RESULT^|||
R|23|^COVFLURSVPLUS^FLUB^SPC^Ct|^0.0|||
R|24|^COVFLURSVPLUS^FLUB^SPC^EndPt|^0.0|||
R|25|^COVFLURSVPLUS^RSV^Xpress SARS-CoV-2_Flu_RSV plus^1^RSV^|NO RESULT - REPEAT TEST^|||||F|| John Doe |20210713164557|20210713164741|CepheidVM-PC^812422^647156^472753073^00500^20211226
C|1|||Error^2125^Operation terminated^Error 2125: Termination Error - Insufficient Volume: 15, 50, 0, 16^20210713164809|N
R|26|^COVFLURSVPLUS^RSV^RSV^|NO RESULT^|||
R|27|^COVFLURSVPLUS^RSV^RSV^Ct|^0.0|||
R|28|^COVFLURSVPLUS^RSV^RSV^EndPt|^0.0|||
R|29|^COVFLURSVPLUS^RSV^SPC^|NO RESULT^|||
R|30|^COVFLURSVPLUS^RSV^SPC^Ct|^0.0|||
R|31|^COVFLURSVPLUS^RSV^SPC^EndPt|^0.0|||
L|1|N

```

## 6.1.2 Example HL7 Messages

### 6.1.2.1 Example HL7 Message: “SARS-CoV-2: Negative, FLU A: Negative, FLU B: Negative, RSV: Negative”

SARS-CoV-2	FLU A	FLU B	RSV
Negative	Negative	Negative	Negative

```

MSH|^~\&|GeneXpert PC^GeneXpert^6.3||LIS||20210820144038||ORU^R32^ORU_R30|GXM-81778754647||P|2.5|||||||
PID|1|||||^|||||^|||||^|||||
ORC|RE|1|||||20210713160633
OBR|1|||COVFLURSVPLUS|||||||||F
TQ1|||||20210713160633|20210713164224|R
OBX|1|ST|COVFLURSVPLUS&SARSCOV2&Xpress SARS-CoV-2_Flu_RSV plus&1|SARS-CoV-2&|NEGATIVE^|||||F|||||^John Doe||20211226~00500~472753131~639127~804051~CepheidVM-PC
OBX|2|ST|COVFLURSVPLUS&SARSCOV2&&|SARS-CoV-2|NEG^|
OBX|3|ST|COVFLURSVPLUS&SARSCOV2&&|SARS-CoV-2&Ct|^0.0|
OBX|4|ST|COVFLURSVPLUS&SARSCOV2&&|SARS-CoV-2&EndPt|^1.0|
OBX|5|ST|COVFLURSVPLUS&SARSCOV2&&|SPC&|PASS^|
OBX|6|ST|COVFLURSVPLUS&SARSCOV2&&|SPC&Ct|^29.3|
OBX|7|ST|COVFLURSVPLUS&SARSCOV2&&|SPC&EndPt|^180.0|
OBX|8|ST|COVFLURSVPLUS&FLUA&Xpress SARS-CoV-2_Flu_RSV plus&1|Flu A&|NEGATIVE^|||||F|||||^John Doe||20211226~00500~472753131~639127~804051~CepheidVM-PC
OBX|9|ST|COVFLURSVPLUS&FLUA&&|Flu A 1&|NEG^|
OBX|10|ST|COVFLURSVPLUS&FLUA&&|Flu A 1&Ct|^0.0|
OBX|11|ST|COVFLURSVPLUS&FLUA&&|Flu A 1&EndPt|^2.0|
OBX|12|ST|COVFLURSVPLUS&FLUA&&|Flu A 2&|NEG^|
OBX|13|ST|COVFLURSVPLUS&FLUA&&|Flu A 2&Ct|^0.0|
OBX|14|ST|COVFLURSVPLUS&FLUA&&|Flu A 2&EndPt|^1.0|
OBX|15|ST|COVFLURSVPLUS&FLUA&&|SPC&|PASS^|
OBX|16|ST|COVFLURSVPLUS&FLUA&&|SPC&Ct|^29.3|
OBX|17|ST|COVFLURSVPLUS&FLUA&&|SPC&EndPt|^180.0|
OBX|18|ST|COVFLURSVPLUS&FLUB&Xpress SARS-CoV-2_Flu_RSV plus&1|Flu B&|NEGATIVE^|||||F|||||^John Doe||20211226~00500~472753131~639127~804051~CepheidVM-PC
OBX|19|ST|COVFLURSVPLUS&FLUB&&|Flu B&|NEG^|
OBX|20|ST|COVFLURSVPLUS&FLUB&&|Flu B&Ct|^0.0|
OBX|21|ST|COVFLURSVPLUS&FLUB&&|Flu B&EndPt|^1.0|
OBX|22|ST|COVFLURSVPLUS&FLUB&&|SPC&|PASS^|
OBX|23|ST|COVFLURSVPLUS&FLUB&&|SPC&Ct|^29.3|
OBX|24|ST|COVFLURSVPLUS&FLUB&&|SPC&EndPt|^180.0|
OBX|25|ST|COVFLURSVPLUS&RSV&Xpress SARS-CoV-2_Flu_RSV plus&1|RSV&|NEGATIVE^|||||F|||||^John Doe||20211226~00500~472753131~639127~804051~CepheidVM-PC
OBX|26|ST|COVFLURSVPLUS&RSV&&|RSV&|NEG^|
OBX|27|ST|COVFLURSVPLUS&RSV&&|RSV&Ct|^0.0|
OBX|28|ST|COVFLURSVPLUS&RSV&&|RSV&EndPt|^0.0|
OBX|29|ST|COVFLURSVPLUS&RSV&&|SPC&|PASS^|
OBX|30|ST|COVFLURSVPLUS&RSV&&|SPC&Ct|^29.3|
OBX|31|ST|COVFLURSVPLUS&RSV&&|SPC&EndPt|^180.0|
SPM|1|999999||ORH|||||P

```

### 6.1.2.2 Example HL7 Message: “SARS-CoV-2: Positive, FLU A: Negative, FLU B: Negative, RSV: Negative”

SARS-CoV-2	FLU A	FLU B	RSV
Positive	Negative	Negative	Negative

```

MSH|^~\&|GeneXpert PC^GeneXpert^6.3||LIS||20210820143209||ORU^R32^ORU_R30|GXM-16414051460|P|2.5|||||||
PID|1|||||^|||||^|||||||
ORC|RE|1|||||20210713122506
OBR|1|||COVFLURSVPLUS|||||||||F
TQ1|||||20210713122506|20210713130050|R
OBX|1|ST|COVFLURSVPLUS&SARSCOV2&|Xpress SARS-CoV-2_Flu_RSV plus&|SARS-CoV-2&|POS^|
OBX|2|ST|COVFLURSVPLUS&SARSCOV2&&|SARS-CoV-2&|POS^|
OBX|3|ST|COVFLURSVPLUS&SARSCOV2&&|SARS-CoV-2&Ct|^31.2|
OBX|4|ST|COVFLURSVPLUS&SARSCOV2&&|SARS-CoV-2&EndPt|^440.0|
OBX|5|ST|COVFLURSVPLUS&SARSCOV2&&|SPC&|NA^|
OBX|6|ST|COVFLURSVPLUS&SARSCOV2&&|SPC&Ct|^29.4|
OBX|7|ST|COVFLURSVPLUS&SARSCOV2&&|SPC&EndPt|^149.0|
OBX|8|ST|COVFLURSVPLUS&FLUA&|Xpress SARS-CoV-2_Flu_RSV plus&|Flu A&|NEGATIVE^|||||F|||||^John Doe||20211226~00500~472753125~625015~702201~CepheidVM-PC
OBX|9|ST|COVFLURSVPLUS&FLUA&&|Flu A 1&|NEG^|
OBX|10|ST|COVFLURSVPLUS&FLUA&&|Flu A 1&Ct|^0.0|
OBX|11|ST|COVFLURSVPLUS&FLUA&&|Flu A 1&EndPt|^1.0|
OBX|12|ST|COVFLURSVPLUS&FLUA&&|Flu A 2&|NEG^|
OBX|13|ST|COVFLURSVPLUS&FLUA&&|Flu A 2&Ct|^0.0|
OBX|14|ST|COVFLURSVPLUS&FLUA&&|Flu A 2&EndPt|^0.0|
OBX|15|ST|COVFLURSVPLUS&FLUA&&|SPC&|NA^|
OBX|16|ST|COVFLURSVPLUS&FLUA&&|SPC&Ct|^29.4|
OBX|17|ST|COVFLURSVPLUS&FLUA&&|SPC&EndPt|^149.0|
OBX|18|ST|COVFLURSVPLUS&FLUB&|Xpress SARS-CoV-2_Flu_RSV plus&|Flu B&|NEGATIVE^|||||F|||||^John Doe||20211226~00500~472753125~625015~702201~CepheidVM-PC
OBX|19|ST|COVFLURSVPLUS&FLUB&&|Flu B&|NEG^|
OBX|20|ST|COVFLURSVPLUS&FLUB&&|Flu B&Ct|^0.0|
OBX|21|ST|COVFLURSVPLUS&FLUB&&|Flu B&EndPt|^2.0|
OBX|22|ST|COVFLURSVPLUS&FLUB&&|SPC&|NA^|
OBX|23|ST|COVFLURSVPLUS&FLUB&&|SPC&Ct|^29.4|
OBX|24|ST|COVFLURSVPLUS&FLUB&&|SPC&EndPt|^149.0|
OBX|25|ST|COVFLURSVPLUS&RSV&|Xpress SARS-CoV-2_Flu_RSV plus&|RSV&|NEGATIVE^|||||F|||||^John Doe||20211226~00500~472753125~625015~702201~CepheidVM-PC
OBX|26|ST|COVFLURSVPLUS&RSV&&|RSV&|NEG^|
OBX|27|ST|COVFLURSVPLUS&RSV&&|RSV&Ct|^0.0|
OBX|28|ST|COVFLURSVPLUS&RSV&&|RSV&EndPt|^1.0|
OBX|29|ST|COVFLURSVPLUS&RSV&&|SPC&|NA^|
OBX|30|ST|COVFLURSVPLUS&RSV&&|SPC&Ct|^29.4|
OBX|31|ST|COVFLURSVPLUS&RSV&&|SPC&EndPt|^149.0|
SPM|1|1_CoV2_c||ORH||||||P

```

### 6.1.2.3 Example HL7 Message: “SARS-CoV-2: Negative, FLU A: Positive, FLU B: Negative, RSV: Negative”

SARS-CoV-2	FLU A	FLU B	RSV
Negative	Positive	Negative	Negative

```

MSH|^~\&|GeneXpert PC^GeneXpert^6.3||LIS||20210820143301||ORU^R32^ORU_R30|GXM-45606536080|P|2.5|||||||
PID|1|||||^|||||^|||||||
ORC|RE|1|||||20210713122619
OBR|1|||COVFLURSVPLUS|||||||||F
TQ1|||||20210713122619|20210713130147|R
OBX|1|ST|COVFLURSVPLUS&SARSCOV2&xpress SARS-CoV-2_Flu_RSV plus&1|SARS-CoV-2&|NEGATIVE^|||||F|||||^John Doe||20211226~00500~472753123~613237~701866~CepheidVM-PC
OBX|2|ST|COVFLURSVPLUS&SARSCOV2&&|SARS-CoV-2&|NEG^||
OBX|3|ST|COVFLURSVPLUS&SARSCOV2&&|SARS-CoV-2&Ct|^0.0||
OBX|4|ST|COVFLURSVPLUS&SARSCOV2&&|SARS-CoV-2&EndPt|^2.0||
OBX|5|ST|COVFLURSVPLUS&SARSCOV2&&|SPC&|NA^||
OBX|6|ST|COVFLURSVPLUS&SARSCOV2&&|SPC&Ct|^29.5||
OBX|7|ST|COVFLURSVPLUS&SARSCOV2&&|SPC&EndPt|^151.0||
OBX|8|ST|COVFLURSVPLUS&FLUA&xpress SARS-CoV-2_Flu_A&|POSITIVE^|||||F|||||^John Doe||20211226~00500~472753123~613237~701866~CepheidVM-PC
OBX|9|ST|COVFLURSVPLUS&FLUA&&|Flu A 1&|POS^||
OBX|10|ST|COVFLURSVPLUS&FLUA&&|Flu A 1&Ct|^30.1||
OBX|11|ST|COVFLURSVPLUS&FLUA&&|Flu A 1&EndPt|^725.0||
OBX|12|ST|COVFLURSVPLUS&FLUA&&|Flu A 2&|POS^||
OBX|13|ST|COVFLURSVPLUS&FLUA&&|Flu A 2&Ct|^34.0||
OBX|14|ST|COVFLURSVPLUS&FLUA&&|Flu A 2&EndPt|^219.0||
OBX|15|ST|COVFLURSVPLUS&FLUA&&|SPC&|NA^||
OBX|16|ST|COVFLURSVPLUS&FLUA&&|SPC&Ct|^29.5||
OBX|17|ST|COVFLURSVPLUS&FLUA&&|SPC&EndPt|^151.0||
OBX|18|ST|COVFLURSVPLUS&FLUB&xpress SARS-CoV-2_Flu_RSV plus&1|Flu B&|NEGATIVE^|||||F|||||^John Doe||20211226~00500~472753123~613237~701866~CepheidVM-PC
OBX|19|ST|COVFLURSVPLUS&FLUB&&|Flu B&|NEG^||
OBX|20|ST|COVFLURSVPLUS&FLUB&&|Flu B&Ct|^0.0||
OBX|21|ST|COVFLURSVPLUS&FLUB&&|Flu B&EndPt|^4.0||
OBX|22|ST|COVFLURSVPLUS&FLUB&&|SPC&|NA^||
OBX|23|ST|COVFLURSVPLUS&FLUB&&|SPC&Ct|^29.5||
OBX|24|ST|COVFLURSVPLUS&FLUB&&|SPC&EndPt|^151.0||
OBX|25|ST|COVFLURSVPLUS&RSV&xpress SARS-CoV-2_Flu_RSV plus&1|RSV&|NEGATIVE^|||||F|||||^John Doe||20211226~00500~472753123~613237~701866~CepheidVM-PC
OBX|26|ST|COVFLURSVPLUS&RSV&&|RSV&|NEG^||
OBX|27|ST|COVFLURSVPLUS&RSV&&|RSV&Ct|^0.0||
OBX|28|ST|COVFLURSVPLUS&RSV&&|RSV&EndPt|^1.0||
OBX|29|ST|COVFLURSVPLUS&RSV&&|SPC&|NA^||
OBX|30|ST|COVFLURSVPLUS&RSV&&|SPC&Ct|^29.5||
OBX|31|ST|COVFLURSVPLUS&RSV&&|SPC&EndPt|^151.0||
SPM|1|2_FluA_c^||ORH||||||P

```

#### 6.1.2.4 Example HL7 Message: “SARS-CoV-2: Negative, FLU A: Negative, FLU B: Positive, RSV: Negative”

SARS-CoV-2	FLU A	FLU B	RSV
Negative	Negative	Positive	Negative

MSH|^~\&|GeneXpert PC^GeneXpert^6.3||LIS||20210820143421||ORU^R32^ORU\_R30|GXM-84114374184|P|2.5|||||||  
 PID|1|||||^|||||^|||||||  
 ORC|RE|1|||||20210713122741  
 OBR|1|||COVFLURSVPPLUS|||||||||||F  
 TQ1|||||20210713122741|20210713130259|R  
 OBX|1|ST|COVFLURSVPPLUS&SARSCOV2&|Xpress SARS-CoV-2\_Flu\_RSV plus&1|SARS-CoV-2&|NEGATIVE^|||||F|||||^John Doe||20211226~00500~472753120~657192~700475~CepheidVM-PC  
 OBX|2|ST|COVFLURSVPPLUS&SARSCOV2&&|SARS-CoV-2&|NEG^|||  
 OBX|3|ST|COVFLURSVPPLUS&SARSCOV2&&|SARS-CoV-2&Ct|^0.0|||  
 OBX|4|ST|COVFLURSVPPLUS&SARSCOV2&&|SARS-CoV-2&EndPt|^2.0|||  
 OBX|5|ST|COVFLURSVPPLUS&SARSCOV2&&|SPC&|NA^|||  
 OBX|6|ST|COVFLURSVPPLUS&SARSCOV2&&|SPC&Ct|^30.1|||  
 OBX|7|ST|COVFLURSVPPLUS&SARSCOV2&&|SPC&EndPt|^147.0|||  
 OBX|8|ST|COVFLURSVPPLUS&FLUA&|Xpress SARS-CoV-2\_Flu\_RSV plus&1|Flu A&|NEGATIVE^|||||F|||||^John Doe||20211226~00500~472753120~657192~700475~CepheidVM-PC  
 OBX|9|ST|COVFLURSVPPLUS&FLUA&&|Flu A 1&|NEG^|||  
 OBX|10|ST|COVFLURSVPPLUS&FLUA&&|Flu A 1&Ct|^0.0|||  
 OBX|11|ST|COVFLURSVPPLUS&FLUA&&|Flu A 1&EndPt|^~2.0|||  
 OBX|12|ST|COVFLURSVPPLUS&FLUA&&|Flu A 2&|NEG^|||  
 OBX|13|ST|COVFLURSVPPLUS&FLUA&&|Flu A 2&Ct|^0.0|||  
 OBX|14|ST|COVFLURSVPPLUS&FLUA&&|Flu A 2&EndPt|^1.0|||  
 OBX|15|ST|COVFLURSVPPLUS&FLUA&&|SPC&|NA^|||  
 OBX|16|ST|COVFLURSVPPLUS&FLUA&&|SPC&Ct|^30.1|||  
 OBX|17|ST|COVFLURSVPPLUS&FLUA&&|SPC&EndPt|^147.0|||  
 OBX|18|ST|COVFLURSVPPLUS&FLUB&|Xpress SARS-CoV-2\_Flu\_RSV plus&1|Flu B&|POSITIVE^|||||F|||||^John Doe||20211226~00500~472753120~657192~700475~CepheidVM-PC  
 OBX|19|ST|COVFLURSVPPLUS&FLUB&&|Flu B&|POS^|||  
 OBX|20|ST|COVFLURSVPPLUS&FLUB&&|Flu B&Ct|^29.3|||  
 OBX|21|ST|COVFLURSVPPLUS&FLUB&&|Flu B&EndPt|^792.0|||  
 OBX|22|ST|COVFLURSVPPLUS&FLUB&&|SPC&|NA^|||  
 OBX|23|ST|COVFLURSVPPLUS&FLUB&&|SPC&Ct|^30.1|||  
 OBX|24|ST|COVFLURSVPPLUS&FLUB&&|SPC&EndPt|^147.0|||  
 OBX|25|ST|COVFLURSVPPLUS&RSV&|Xpress SARS-CoV-2\_Flu\_RSV plus&1|RSV&|NEGATIVE^|||||F|||||^John Doe||20211226~00500~472753120~657192~700475~CepheidVM-PC  
 OBX|26|ST|COVFLURSVPPLUS&RSV&&|RSV&|NEG^|||  
 OBX|27|ST|COVFLURSVPPLUS&RSV&&|RSV&Ct|^0.0|||  
 OBX|28|ST|COVFLURSVPPLUS&RSV&&|RSV&EndPt|^~1.0|||  
 OBX|29|ST|COVFLURSVPPLUS&RSV&&|SPC&|NA^|||  
 OBX|30|ST|COVFLURSVPPLUS&RSV&&|SPC&Ct|^30.1|||  
 OBX|31|ST|COVFLURSVPPLUS&RSV&&|SPC&EndPt|^147.0|||  
 SPM|1|3\_FluB\_c^|||ORH|||||||P

### 6.1.2.5 Example HL7 Message: “SARS-CoV-2: Negative, FLU A: Negative, FLU B: Negative, RSV: Positive”

SARS-CoV-2	FLU A	FLU B	RSV
Negative	Negative	Negative	Positive

```

MSH|^~\&|GeneXpert PC^GeneXpert^6.3||LIS||20210809123150||ORU^R32^ORU_R30|GXM-58025438050|P|2.5|||||||
PID|1|||||^|||||^|||||^|||||||
ORC|RE|1|||||20210713123523
OBR|1|||COVFLURSVPLUS|||||||||F
TQ1|||||20210713123523|20210713131205|R
OBX|1|ST|COVFLURSVPLUS&SARSCOV2&|Xpress SARS-CoV-2_Flu_RSV plus&1|SARS-CoV-2&|POSITIVE^|||||F|||||^ John Doe |||20211226~00500~472753084~610876~714106~CepheidVM-PC
OBX|2|ST|COVFLURSVPLUS&SARSCOV2&&|SARS-CoV-2&|POS^|
OBX|3|ST|COVFLURSVPLUS&SARSCOV2&&|SARS-CoV-2&Ct|^30.6|
OBX|4|ST|COVFLURSVPLUS&SARSCOV2&&|SARS-CoV-2&EndPt|^449.0|
OBX|5|ST|COVFLURSVPLUS&SARSCOV2&&|SPC&|NA^|
OBX|6|ST|COVFLURSVPLUS&SARSCOV2&&|SPC&Ct|^28.9|
OBX|7|ST|COVFLURSVPLUS&SARSCOV2&&|SPC&EndPt|^134.0|
OBX|8|ST|COVFLURSVPLUS&FLUA&|Xpress SARS-CoV-2_Flu_RSV plus&1|Flu A&|POSITIVE^|||||F|||||^ John Doe |||20211226~00500~472753084~610876~714106~CepheidVM-PC
OBX|9|ST|COVFLURSVPLUS&FLUA&&|Flu A 1&|POS^|
OBX|10|ST|COVFLURSVPLUS&FLUA&&|Flu A 1&Ct|^29.3|
OBX|11|ST|COVFLURSVPLUS&FLUA&&|Flu A 1&EndPt|^601.0|
OBX|12|ST|COVFLURSVPLUS&FLUA&&|Flu A 2&|POS^|
OBX|13|ST|COVFLURSVPLUS&FLUA&&|Flu A 2&Ct|^33.2|
OBX|14|ST|COVFLURSVPLUS&FLUA&&|Flu A 2&EndPt|^200.0|
OBX|15|ST|COVFLURSVPLUS&FLUA&&|SPC&|NA^|
OBX|16|ST|COVFLURSVPLUS&FLUA&&|SPC&Ct|^28.9|
OBX|17|ST|COVFLURSVPLUS&FLUA&&|SPC&EndPt|^134.0|
OBX|18|ST|COVFLURSVPLUS&FLUB&|Xpress SARS-CoV-2_Flu_RSV plus&1|Flu B&|POSITIVE^|||||F|||||^ John Doe |||20211226~00500~472753084~610876~714106~CepheidVM-PC
OBX|19|ST|COVFLURSVPLUS&FLUB&&|Flu B&|POS^|
OBX|20|ST|COVFLURSVPLUS&FLUB&&|Flu B&Ct|^28.8|
OBX|21|ST|COVFLURSVPLUS&FLUB&&|Flu B&EndPt|^658.0|
OBX|22|ST|COVFLURSVPLUS&FLUB&&|SPC&|NA^|
OBX|23|ST|COVFLURSVPLUS&FLUB&&|SPC&Ct|^28.9|
OBX|24|ST|COVFLURSVPLUS&FLUB&&|SPC&EndPt|^134.0|
OBX|25|ST|COVFLURSVPLUS&RSV&|Xpress SARS-CoV-2_Flu_RSV plus&1|RSV&|POSITIVE^|||||F|||||^ John Doe |||20211226~00500~472753084~610876~714106~CepheidVM-PC
OBX|26|ST|COVFLURSVPLUS&RSV&&|RSV&|POS^|
OBX|27|ST|COVFLURSVPLUS&RSV&&|RSV&Ct|^29.2|
OBX|28|ST|COVFLURSVPLUS&RSV&&|RSV&EndPt|^373.0|
OBX|29|ST|COVFLURSVPLUS&RSV&&|SPC&|NA^|
OBX|30|ST|COVFLURSVPLUS&RSV&&|SPC&Ct|^28.9|
OBX|31|ST|COVFLURSVPLUS&RSV&&|SPC&EndPt|^134.0|
SPM|1|15_CoV2_FluA_FluB_RSV_c^||ORH|||||P

```

## 6.1.2.6 Example HL7 Message: "SARS-CoV-2: Positive, FLU A: Positive, FLU B: Positive, RSV: Positive"

SARS-CoV-2	FLU A	FLU B	RSV
Positive	Positive	Positive	Positive

```

MSH|^~\&|GeneXpert PC^GeneXpert^6.3||LIS||20210809123150||ORU^R32^ORU_R30|GXM-58025438050|P|2.5|||||||
PID|1|||||^|||||^|||||^|||||||
ORC|RE|1||||||20210713123523
OBR|1|||COVFLURSVPLUS||||||||||F
TQ1||||||20210713123523|20210713131205|R
OBX|1|ST|COVFLURSVPLUS&SARSCOV2&|Xpress SARS-CoV-2_Flu_RSV plus&1|SARS-CoV-2&|POSITIVE^|||||F|||||^ John Doe |||20211226~00500~472753084~610876~714106~CepheidVM-PC
OBX|2|ST|COVFLURSVPLUS&SARSCOV2&&|SARS-CoV-2&|POS^|
OBX|3|ST|COVFLURSVPLUS&SARSCOV2&&|SARS-CoV-2&Ct|^30.6|
OBX|4|ST|COVFLURSVPLUS&SARSCOV2&&|SARS-CoV-2&EndPt|^449.0|
OBX|5|ST|COVFLURSVPLUS&SARSCOV2&&|SPC&|NA^|
OBX|6|ST|COVFLURSVPLUS&SARSCOV2&&|SPC&Ct|^28.9|
OBX|7|ST|COVFLURSVPLUS&SARSCOV2&&|SPC&EndPt|^134.0|
OBX|8|ST|COVFLURSVPLUS&FLUA&|Xpress SARS-CoV-2_Flu_RSV plus&1|Flu A&|POSITIVE^|||||F|||||^ John Doe |||20211226~00500~472753084~610876~714106~CepheidVM-PC
OBX|9|ST|COVFLURSVPLUS&FLUA&&|Flu A 1&|POS^|
OBX|10|ST|COVFLURSVPLUS&FLUA&&|Flu A 1&Ct|^29.3|
OBX|11|ST|COVFLURSVPLUS&FLUA&&|Flu A 1&EndPt|^601.0|
OBX|12|ST|COVFLURSVPLUS&FLUA&&|Flu A 2&|POS^|
OBX|13|ST|COVFLURSVPLUS&FLUA&&|Flu A 2&Ct|^33.2|
OBX|14|ST|COVFLURSVPLUS&FLUA&&|Flu A 2&EndPt|^200.0|
OBX|15|ST|COVFLURSVPLUS&FLUA&&|SPC&|NA^|
OBX|16|ST|COVFLURSVPLUS&FLUA&&|SPC&Ct|^28.9|
OBX|17|ST|COVFLURSVPLUS&FLUA&&|SPC&EndPt|^134.0|
OBX|18|ST|COVFLURSVPLUS&FLUB&|Xpress SARS-CoV-2_Flu_RSV plus&1|Flu B&|POSITIVE^|||||F|||||^ John Doe |||20211226~00500~472753084~610876~714106~CepheidVM-PC
OBX|19|ST|COVFLURSVPLUS&FLUB&&|Flu B&|POS^|
OBX|20|ST|COVFLURSVPLUS&FLUB&&|Flu B&Ct|^28.8|
OBX|21|ST|COVFLURSVPLUS&FLUB&&|Flu B&EndPt|^658.0|
OBX|22|ST|COVFLURSVPLUS&FLUB&&|SPC&|NA^|
OBX|23|ST|COVFLURSVPLUS&FLUB&&|SPC&Ct|^28.9|
OBX|24|ST|COVFLURSVPLUS&FLUB&&|SPC&EndPt|^134.0|
OBX|25|ST|COVFLURSVPLUS&RSV&|Xpress SARS-CoV-2_Flu_RSV plus&1|RSV&|POSITIVE^|||||F|||||^ John Doe |||20211226~00500~472753084~610876~714106~CepheidVM-PC
OBX|26|ST|COVFLURSVPLUS&RSV&&|RSV&|POS^|
OBX|27|ST|COVFLURSVPLUS&RSV&&|RSV&Ct|^29.2|
OBX|28|ST|COVFLURSVPLUS&RSV&&|RSV&EndPt|^373.0|
OBX|29|ST|COVFLURSVPLUS&RSV&&|SPC&|NA^|
OBX|30|ST|COVFLURSVPLUS&RSV&&|SPC&Ct|^28.9|
OBX|31|ST|COVFLURSVPLUS&RSV&&|SPC&EndPt|^134.0|
SPM|1|15_CoV2_FluA_FluB_RSV_c^||ORH||||||P

```

### 6.1.2.7 Example HL7 Message: “SARS-CoV-2: Error”

SARS-CoV-2	FLU A	FLU B	RSV
Error	Error	Error	Error

```

MSH|^~\&GeneXpert PC^GeneXpert^6.3||LIS||20210809123808||ORU^R32^ORU_R30|GXM-54857253461|P|2.5|||||||
PID|1|||||^|||||^|||||^|||||||
ORC|RE|1|||||20210713174434
OBR|1|||COVFLURSVPLUS||||||||||F
TQ1|||||20210713174434|20210713174700|R
OBX|1|ST|COVFLURSVPLUS&SARSCOV2&Xpress SARS-CoV-2_Flu_RSV plus&1|SARS-CoV-2&|ERROR|^|||||F|||||^ John Doe |||20211226~00500~472753074~634358~804051~CepheidVM-PC
NTE|1|L|Error^2125^Operation terminated^Error 2125: Termination Error - Insufficient Volume: 16, 50, 0, 17^20210713174646
OBX|2|ST|COVFLURSVPLUS&SARSCOV2&&|SARS-CoV-2&|NO RESULT|^|
OBX|3|ST|COVFLURSVPLUS&SARSCOV2&&|SARS-CoV-2&Ct|^0.0|
OBX|4|ST|COVFLURSVPLUS&SARSCOV2&&|SARS-CoV-2&EndPt|^0.0|
OBX|5|ST|COVFLURSVPLUS&SARSCOV2&&|SPC&|NO RESULT|^|
OBX|6|ST|COVFLURSVPLUS&SARSCOV2&&|SPC&Ct|^0.0|
OBX|7|ST|COVFLURSVPLUS&SARSCOV2&&|SPC&EndPt|^0.0|
OBX|8|ST|COVFLURSVPLUS&FLUA&Xpress SARS-CoV-2_Flu_RSV plus&1|Flu A&|ERROR|^|||||F|||||^ John Doe |||20211226~00500~472753074~634358~804051~CepheidVM-PC
NTE|1|L|Error^2125^Operation terminated^Error 2125: Termination Error - Insufficient Volume: 16, 50, 0, 17^20210713174646
OBX|9|ST|COVFLURSVPLUS&FLUA&&|Flu A 1&|NO RESULT|^|
OBX|10|ST|COVFLURSVPLUS&FLUA&&|Flu A 1&Ct|^0.0|
OBX|11|ST|COVFLURSVPLUS&FLUA&&|Flu A 1&EndPt|^0.0|
OBX|12|ST|COVFLURSVPLUS&FLUA&&|Flu A 2&|NO RESULT|^|
OBX|13|ST|COVFLURSVPLUS&FLUA&&|Flu A 2&Ct|^0.0|
OBX|14|ST|COVFLURSVPLUS&FLUA&&|Flu A 2&EndPt|^0.0|
OBX|15|ST|COVFLURSVPLUS&FLUA&&|SPC&|NO RESULT|^|
OBX|16|ST|COVFLURSVPLUS&FLUA&&|SPC&Ct|^0.0|
OBX|17|ST|COVFLURSVPLUS&FLUA&&|SPC&EndPt|^0.0|
OBX|18|ST|COVFLURSVPLUS&FLUB&&|Flu B&|ERROR|^|||||F|||||^ John Doe |||20211226~00500~472753074~634358~804051~CepheidVM-PC
NTE|1|L|Error^2125^Operation terminated^Error 2125: Termination Error - Insufficient Volume: 16, 50, 0, 17^20210713174646
OBX|19|ST|COVFLURSVPLUS&FLUB&&|Flu B&|NO RESULT|^|
OBX|20|ST|COVFLURSVPLUS&FLUB&&|Flu B&Ct|^0.0|
OBX|21|ST|COVFLURSVPLUS&FLUB&&|Flu B&EndPt|^0.0|
OBX|22|ST|COVFLURSVPLUS&FLUB&&|SPC&|NO RESULT|^|
OBX|23|ST|COVFLURSVPLUS&FLUB&&|SPC&Ct|^0.0|
OBX|24|ST|COVFLURSVPLUS&FLUB&&|SPC&EndPt|^0.0|
OBX|25|ST|COVFLURSVPLUS&RSV&&Xpress SARS-CoV-2_Flu_RSV plus&1|RSV&|ERROR|^|||||F|||||^ John Doe |||20211226~00500~472753074~634358~804051~CepheidVM-PC
NTE|1|L|Error^2125^Operation terminated^Error 2125: Termination Error - Insufficient Volume: 16, 50, 0, 17^20210713174646
OBX|26|ST|COVFLURSVPLUS&RSV&&|RSV&|NO RESULT|^|
OBX|27|ST|COVFLURSVPLUS&RSV&&|RSV&Ct|^0.0|
OBX|28|ST|COVFLURSVPLUS&RSV&&|RSV&EndPt|^0.0|
OBX|29|ST|COVFLURSVPLUS&RSV&&|SPC&|NO RESULT|^|
OBX|30|ST|COVFLURSVPLUS&RSV&&|SPC&Ct|^0.0|
OBX|31|ST|COVFLURSVPLUS&RSV&&|SPC&EndPt|^0.0|
SPM|1|Test^||ORH|||||P

```

### 6.1.2.8 Example HL7 Message: “SARS-CoV-2: Invalid”

SARS-CoV-2	FLU A	FLU B	RSV
Invalid	Invalid	Invalid	Invalid

```
MSH|^~\&|GeneXpert PC^GeneXpert^6.3||LIS||20210809123146||ORU^R32^ORU_R30|GXM-21232263312|P|2.5|||||||  
PID|1|||||^|||||^|||||^|||||||  
ORC|RE|1|||||20210804145311  
OBR|1|||COVFLURSVPLUS|||||||||F  
TQ1|||||20210804145311|20210804152925|R  
OBX|1|ST|COVFLURSVPLUS&SARSCOV2&|Xpress SARS-CoV-2_Flu_RSV plus&1|SARS-CoV-2&|INVALID^|||||F|||||^ John Doe ||20211226~00500~472753074~778691~714106~CepheidVM-PC  
OBX|2|ST|COVFLURSVPLUS&SARSCOV2&&|SARS-CoV-2&|INVALID^|||  
OBX|3|ST|COVFLURSVPLUS&SARSCOV2&&|SARS-CoV-2&Ct|^0.0|||  
OBX|4|ST|COVFLURSVPLUS&SARSCOV2&&|SARS-CoV-2&EndPt|^2.0|||  
OBX|5|ST|COVFLURSVPLUS&SARSCOV2&&|SPC&|FAIL^|||  
OBX|6|ST|COVFLURSVPLUS&SARSCOV2&&|SPC&Ct|^0.0|||  
OBX|7|ST|COVFLURSVPLUS&SARSCOV2&&|SPC&EndPt|^0.0|||  
OBX|8|ST|COVFLURSVPLUS&FLUA&|Xpress SARS-CoV-2_Flu_RSV plus&1|Flu A&|INVALID^|||||F|||||^ John Doe ||20211226~00500~472753074~778691~714106~CepheidVM-PC  
OBX|9|ST|COVFLURSVPLUS&FLUA&&|Flu A 1&|INVALID^|||  
OBX|10|ST|COVFLURSVPLUS&FLUA&&|Flu A 1&Ct|^0.0|||  
OBX|11|ST|COVFLURSVPLUS&FLUA&&|Flu A 1&EndPt|^2.0|||  
OBX|12|ST|COVFLURSVPLUS&FLUA&&|Flu A 2&|INVALID^|||  
OBX|13|ST|COVFLURSVPLUS&FLUA&&|Flu A 2&Ct|^0.0|||  
OBX|14|ST|COVFLURSVPLUS&FLUA&&|Flu A 2&EndPt|^1.0|||  
OBX|15|ST|COVFLURSVPLUS&FLUA&&|SPC&|FAIL^|||  
OBX|16|ST|COVFLURSVPLUS&FLUA&&|SPC&Ct|^0.0|||  
OBX|17|ST|COVFLURSVPLUS&FLUA&&|SPC&EndPt|^0.0|||  
OBX|18|ST|COVFLURSVPLUS&FLUB&|Xpress SARS-CoV-2_Flu_RSV plus&1|Flu B&|INVALID^|||||F|||||^ John Doe ||20211226~00500~472753074~778691~714106~CepheidVM-PC  
OBX|19|ST|COVFLURSVPLUS&FLUB&&|Flu B&|INVALID^|||  
OBX|20|ST|COVFLURSVPLUS&FLUB&&|Flu B&Ct|^0.0|||  
OBX|21|ST|COVFLURSVPLUS&FLUB&&|Flu B&EndPt|^1.0|||  
OBX|22|ST|COVFLURSVPLUS&FLUB&&|SPC&|FAIL^|||  
OBX|23|ST|COVFLURSVPLUS&FLUB&&|SPC&Ct|^0.0|||  
OBX|24|ST|COVFLURSVPLUS&FLUB&&|SPC&EndPt|^0.0|||  
OBX|25|ST|COVFLURSVPLUS&RSV&|Xpress SARS-CoV-2_Flu_RSV plus&1|RSV&|INVALID^|||||F|||||^ John Doe ||20211226~00500~472753074~778691~714106~CepheidVM-PC  
OBX|26|ST|COVFLURSVPLUS&RSV&&|RSV&|INVALID^|||  
OBX|27|ST|COVFLURSVPLUS&RSV&&|RSV&Ct|^0.0|||  
OBX|28|ST|COVFLURSVPLUS&RSV&|RSV&EndPt|^2.0|||  
OBX|29|ST|COVFLURSVPLUS&RSV&&|SPC&|FAIL^|||  
OBX|30|ST|COVFLURSVPLUS&RSV&&|SPC&Ct|^0.0|||  
OBX|31|ST|COVFLURSVPLUS&RSV&&|SPC&EndPt|^0.0|||  
SPM|1|Test-1^||ORH||||||P
```

### 6.1.2.9 Example HL7 Message: “SARS-CoV-2: No Result”

SARS-CoV-2	FLU A	FLU B	RSV
No Result	No Result	No Result	No result

```

MSH|^~\&|GeneXpert PC^GeneXpert^6.3||LIS||20210809123149||ORU^R32^ORU_R30|GXM-35405703184|P|2.5|||||||
PID|1|||||^|||||^|||||^|||||
ORC|RE|1|||||20210713164557
OBR|1|||COVFLURSVPLUS|||||||||F
TQ1|||||20210713164557|20210713164741|R
OBX|1|ST|COVFLURSVPLUS&SARSCOV2&|Xpress SARS-CoV-2_Flu_RSV plus&1|SARS-CoV-2&|NO RESULT - REPEAT TEST^|||||F|||||^ John Doe |||20211226~00500~472753073~647156~812422~CepheidVM-PC
NTE|1|L|Error^2125^Operation terminated^Error 2125: Termination Error - Insufficient Volume: 15, 50, 0, 16^20210713164809
OBX|2|ST|COVFLURSVPLUS&SARSCOV2&&|SARS-CoV-2&|NO RESULT^||
OBX|3|ST|COVFLURSVPLUS&SARSCOV2&&|SARS-CoV-2&Ct|^0.0||
OBX|4|ST|COVFLURSVPLUS&SARSCOV2&&|SARS-CoV-2&EndPt|^0.0||
OBX|5|ST|COVFLURSVPLUS&SARSCOV2&&|SPC&|NO RESULT^||
OBX|6|ST|COVFLURSVPLUS&SARSCOV2&&|SPC&Ct|^0.0||
OBX|7|ST|COVFLURSVPLUS&SARSCOV2&&|SPC&EndPt|^0.0||
OBX|8|ST|COVFLURSVPLUS&FLUA&|Xpress SARS-CoV-2_Flu_RSV plus&1|Flu A&|NO RESULT - REPEAT TEST^|||||F|||||^ John Doe |||20211226~00500~472753073~647156~812422~CepheidVM-PC
NTE|1|L|Error^2125^Operation terminated^Error 2125: Termination Error - Insufficient Volume: 15, 50, 0, 16^20210713164809
OBX|9|ST|COVFLURSVPLUS&FLUA&&|Flu A 1&|NO RESULT^||
OBX|10|ST|COVFLURSVPLUS&FLUA&&|Flu A 1&Ct|^0.0||
OBX|11|ST|COVFLURSVPLUS&FLUA&&|Flu A 1&EndPt|^0.0||
OBX|12|ST|COVFLURSVPLUS&FLUA&&|Flu A 2&|NO RESULT^||
OBX|13|ST|COVFLURSVPLUS&FLUA&&|Flu A 2&Ct|^0.0||
OBX|14|ST|COVFLURSVPLUS&FLUA&&|Flu A 2&EndPt|^0.0||
OBX|15|ST|COVFLURSVPLUS&FLUA&&|SPC&|NO RESULT^||
OBX|16|ST|COVFLURSVPLUS&FLUA&&|SPC&Ct|^0.0||
OBX|17|ST|COVFLURSVPLUS&FLUA&&|SPC&EndPt|^0.0||
OBX|18|ST|COVFLURSVPLUS&FLUB&&|Xpress SARS-CoV-2_Flu_RSV plus&1|Flu B&|NO RESULT - REPEAT TEST^|||||F|||||^ John Doe |||20211226~00500~472753073~647156~812422~CepheidVM-PC
NTE|1|L|Error^2125^Operation terminated^Error 2125: Termination Error - Insufficient Volume: 15, 50, 0, 16^20210713164809
OBX|19|ST|COVFLURSVPLUS&FLUB&&|Flu B&|NO RESULT^||
OBX|20|ST|COVFLURSVPLUS&FLUB&&|Flu B&Ct|^0.0||
OBX|21|ST|COVFLURSVPLUS&FLUB&&|Flu B&EndPt|^0.0||
OBX|22|ST|COVFLURSVPLUS&FLUB&&|SPC&|NO RESULT^||
OBX|23|ST|COVFLURSVPLUS&FLUB&&|SPC&Ct|^0.0||
OBX|24|ST|COVFLURSVPLUS&FLUB&&|SPC&EndPt|^0.0||
OBX|25|ST|COVFLURSVPLUS&RSV&|Xpress SARS-CoV-2_Flu_RSV plus&1|RSV&|NO RESULT - REPEAT TEST^|||||F|||||^ John Doe |||20211226~00500~472753073~647156~812422~CepheidVM-PC
NTE|1|L|Error^2125^Operation terminated^Error 2125: Termination Error - Insufficient Volume: 15, 50, 0, 16^20210713164809
OBX|26|ST|COVFLURSVPLUS&RSV&&|RSV&|NO RESULT^||
OBX|27|ST|COVFLURSVPLUS&RSV&&|RSV&Ct|^0.0||
OBX|28|ST|COVFLURSVPLUS&RSV&&|RSV&EndPt|^0.0||
OBX|29|ST|COVFLURSVPLUS&RSV&&|SPC&|NO RESULT^||
OBX|30|ST|COVFLURSVPLUS&RSV&&|SPC&Ct|^0.0||
OBX|31|ST|COVFLURSVPLUS&RSV&&|SPC&EndPt|^0.0||
SPM|1|test^||ORH|||||P

```

## 6.2 Example Messages for Panel: Xpress SARS-CoV-2\_Flu plus

### 6.2.1 Example ASTM Messages

#### 6.2.1.1 Example ASTM Message: "SARS-CoV-2: Negative, FLU A: Negative, FLU B: Negative, RSV: N.A."

SARS-CoV-2	FLU A	FLU B	RSV
Negative	Negative	Negative	N.A.

```
Hi[@\|GXM-47724615717||GeneXpert PC^GeneXpert^6.3||||LIS||P|1394-97|20210809120241
P|1|||^|||||||||||||||
O|14_RSV_b||^COVFLUPLUS|R|20210713122825||||||ORH||||||F
R|1|^COVFLUPLUS^SARSCOV2^Xpress SARS-CoV-2_Flu plus^1^SARS-CoV-2^NEGATIVE^||||F| John Doe |20210713122825|20210713130451|CepheidVM-PC^703691^765011^472753118^00500^20211226
R|2|^COVFLUPLUS^SARSCOV2^SARS-CoV-2^NEG^|||
R|3|^COVFLUPLUS^SARSCOV2^SARS-CoV-2^Ct|^0.0|||
R|4|^COVFLUPLUS^SARSCOV2^SARS-CoV-2^EndPt|^1.0|||
R|5|^COVFLUPLUS^SARSCOV2^SPC^PASS^|||
R|6|^COVFLUPLUS^SARSCOV2^SPC^Ct|^29.4|||
R|7|^COVFLUPLUS^SARSCOV2^SPC^EndPt|^151.0|||
R|8|^COVFLUPLUS^FLUA^Xpress SARS-CoV-2_Flu plus^1^Flu A^NEGATIVE^||||F| John Doe |20210713122825|20210713130451|CepheidVM-PC^703691^765011^472753118^00500^20211226
R|9|^COVFLUPLUS^FLUA^Flu A 1^NEG^|||
R|10|^COVFLUPLUS^FLUA^Flu A 1^Ct|^0.0|||
R|11|^COVFLUPLUS^FLUA^Flu A 1^EndPt|^0.0|||
R|12|^COVFLUPLUS^FLUA^Flu A 2^NEG^|||
R|13|^COVFLUPLUS^FLUA^Flu A 2^Ct|^0.0|||
R|14|^COVFLUPLUS^FLUA^Flu A 2^EndPt|^~6.0|||
R|15|^COVFLUPLUS^FLUA^SPC^PASS^|||
R|16|^COVFLUPLUS^FLUA^SPC^Ct|^29.4|||
R|17|^COVFLUPLUS^FLUA^SPC^EndPt|^151.0|||
R|18|^COVFLUPLUS^FLUB^Xpress SARS-CoV-2_Flu plus^1^Flu B^NEGATIVE^||||F| John Doe |20210713122825|20210713130451|CepheidVM-PC^703691^765011^472753118^00500^20211226
R|19|^COVFLUPLUS^FLUB^Flu B^NEG^|||
R|20|^COVFLUPLUS^FLUB^Flu B^Ct|^0.0|||
R|21|^COVFLUPLUS^FLUB^Flu B^EndPt|^5.0|||
R|22|^COVFLUPLUS^FLUB^SPC^PASS^|||
R|23|^COVFLUPLUS^FLUB^SPC^Ct|^29.4|||
R|24|^COVFLUPLUS^FLUB^SPC^EndPt|^151.0|||
L|1|N
```

### 6.2.1.2 Example ASTM Message: “SARS-CoV-2: Positive, FLU A: Negative, FLU B: Negative, RSV: N.A.”

SARS-CoV-2	FLU A	FLU B	RSV
Positive	Negative	Negative	N.A.

```

H|@|^GXM-52002757702||GeneXpert PC^GeneXpert^6.3||||LIS||P|1394-97|20210820145321
P|1|||||^|||||||||||||||
O|11_CoV2_bj|^COVFLUPLUSIR|20210713122449||||||ORH||||||F|John Doe|20210713122449|20210713130112|CepheidVM-PC^702201^693225^472753127^00500^20211226|
R|1|^COVFLUPLUS^^SARSCOV2^Xpress SARS-CoV-2_Flu plus^1^SARS-CoV-2^|POS^|||
R|2|^COVFLUPLUS^^SARSCOV2^^SARS-CoV-2^|POS^|||
R|3|^COVFLUPLUS^^SARSCOV2^^SARS-CoV-2^Ct|^31.0|||
R|4|^COVFLUPLUS^^SARSCOV2^^SARS-CoV-2^EndPt|^431.0|||
R|5|^COVFLUPLUS^^SARSCOV2^^SPC^|NA^|||
R|6|^COVFLUPLUS^^SARSCOV2^^SPC^Ct|^29.7|||
R|7|^COVFLUPLUS^^SARSCOV2^^SPC^EndPt|^133.0|||
R|8|^COVFLUPLUS^^FLUA^Xpress SARS-CoV-2_Flu plus^1^Flu A^|NEGATIVE^|||F|John Doe|20210713122449|20210713130112|CepheidVM-PC^702201^693225^472753127^00500^20211226|
R|9|^COVFLUPLUS^^FLUA^|Flu A 1^|NEG^|||
R|10|^COVFLUPLUS^^FLUA^|Flu A 1^Ct|^0.0|||
R|11|^COVFLUPLUS^^FLUA^|Flu A 1^EndPt|^2.0|||
R|12|^COVFLUPLUS^^FLUA^|Flu A 2^|NEG^|||
R|13|^COVFLUPLUS^^FLUA^|Flu A 2^Ct|^0.0|||
R|14|^COVFLUPLUS^^FLUA^|Flu A 2^EndPt|^0.0|||
R|15|^COVFLUPLUS^^FLUA^|SPC^|NA^|||
R|16|^COVFLUPLUS^^FLUA^|SPC^Ct|^29.7|||
R|17|^COVFLUPLUS^^FLUA^|SPC^EndPt|^133.0|||
R|18|^COVFLUPLUS^^FLUB^Xpress SARS-CoV-2_Flu plus^1^Flu B^|NEGATIVE^|||F|John Doe|20210713122449|20210713130112|CepheidVM-PC^702201^693225^472753127^00500^20211226|
R|19|^COVFLUPLUS^^FLUB^|Flu B^|NEG^|||
R|20|^COVFLUPLUS^^FLUB^|Flu B^Ct|^0.0|||
R|21|^COVFLUPLUS^^FLUB^|Flu B^EndPt|^2.0|||
R|22|^COVFLUPLUS^^FLUB^|SPC^|NA^|||
R|23|^COVFLUPLUS^^FLUB^|SPC^Ct|^29.7|||
R|24|^COVFLUPLUS^^FLUB^|SPC^EndPt|^133.0|||
L|1|N

```

### 6.2.1.3 Example ASTM Message: “SARS-CoV-2: Negative, FLU A: Positive, FLU B: Negative, RSV: N.A.”

SARS-CoV-2	FLU A	FLU B	RSV
Negative	Positive	Negative	N.A

```

H|@|^GXM-12350662605||GeneXpert PC^GeneXpert^6.3||||LIS||P|1394-97|20210820145320
P|1|||||^|||||||||||||||
O|12_FluA_b|^^COVFLUPLUS|R|20210713122600||||||ORH|||||||
R|1|^COVFLUPLUS^^SARSCOV2^Xpress SARS-CoV-2_Flu plus^1^SARS-CoV-2^NEGATIVE^||||F||John Doe|20210713122600|20210713130203|CepheidVM-PC^702201^719197^472753124^00500^20211226|
R|2|^COVFLUPLUS^^SARSCOV2^^SARS-CoV-2^NEG^|||
R|3|^COVFLUPLUS^^SARSCOV2^^SARS-CoV-2^Ct|^0.0|||
R|4|^COVFLUPLUS^^SARSCOV2^^SARS-CoV-2^EndPt|^1.0|||
R|5|^COVFLUPLUS^^SARSCOV2^^SPC^NA^|||
R|6|^COVFLUPLUS^^SARSCOV2^^SPC^Ct|^29.0|||
R|7|^COVFLUPLUS^^SARSCOV2^^SPC^EndPt|^167.0|||
R|8|^COVFLUPLUS^^FLUA^Xpress SARS-CoV-2_Flu plus^1^Flu A^POSITIVE^||||F||John Doe|20210713122600|20210713130203|CepheidVM-PC^702201^719197^472753124^00500^20211226|
R|9|^COVFLUPLUS^^FLUA^^Flu A 1^Ct|^30.0|||
R|10|^COVFLUPLUS^^FLUA^^Flu A 1^EndPt|^752.0|||
R|11|^COVFLUPLUS^^FLUA^^Flu A 2^POS^|||
R|12|^COVFLUPLUS^^FLUA^^Flu A 2^Ct|^33.7|||
R|13|^COVFLUPLUS^^FLUB^Xpress SARS-CoV-2_Flu plus^1^Flu B^NEGATIVE^||||F||John Doe|20210713122600|20210713130203|CepheidVM-PC^702201^719197^472753124^00500^20211226|
R|14|^COVFLUPLUS^^FLUB^^Flu B^Ct|^0.0|||
R|15|^COVFLUPLUS^^FLUB^^SPC^NA^|||
R|16|^COVFLUPLUS^^FLUB^^SPC^Ct|^29.0|||
R|17|^COVFLUPLUS^^FLUB^^SPC^EndPt|^167.0|||
R|18|^COVFLUPLUS^^FLUB^Xpress SARS-CoV-2_Flu plus^1^Flu B^NEGATIVE^||||F||John Doe|20210713122600|20210713130203|CepheidVM-PC^702201^719197^472753124^00500^20211226|
R|19|^COVFLUPLUS^^FLUB^^Flu B^NEG^|||
R|20|^COVFLUPLUS^^FLUB^^Flu B^Ct|^0.0|||
R|21|^COVFLUPLUS^^FLUB^^Flu B^EndPt|^~3.0|||
R|22|^COVFLUPLUS^^FLUB^^SPC^NA^|||
R|23|^COVFLUPLUS^^FLUB^^SPC^Ct|^29.0|||
R|24|^COVFLUPLUS^^FLUB^^SPC^EndPt|^167.0|||
L|1|N

```

#### 6.2.1.4 Example ASTM Message: “SARS-CoV-2: Negative, FLU A: Negative, FLU B: Positive, RSV: N.A.”

SARS-CoV-2	FLU A	FLU B	RSV
Negative	Negative	Positive	N.A.

```

H|@|^GXM-71151736385||GeneXpert PC^GeneXpert^6.3||||LIS||P|1394-97|20210820145319
P|1|||||^|||||||||||||||||||
O|1|3_FluB_b||^COVFLUPLUS|R|20210713122726||||||ORH|||||||
R|1|^COVFLUPLUS^^SARSCOV2^Xpress SARS-CoV-2_Flu plus^1^SARS-CoV-2^NEGATIVE^||||F||John Doe|20210713122726|20210713130313|CepheidVM-PC^700475^613245^472753121^00500^20211226|
R|2|^COVFLUPLUS^^SARSCOV2^^SARS-CoV-2^NEG^|||
R|3|^COVFLUPLUS^^SARSCOV2^^SARS-CoV-2^Ct|^0.0|||
R|4|^COVFLUPLUS^^SARSCOV2^^SARS-CoV-2^EndPt|^0.0|||
R|5|^COVFLUPLUS^^SARSCOV2^^SPC^NA^|||
R|6|^COVFLUPLUS^^SARSCOV2^^SPC^Ct|^29.8|||
R|7|^COVFLUPLUS^^SARSCOV2^^SPC^EndPt|^142.0|||
R|8|^COVFLUPLUS^^FLUA^Xpress SARS-CoV-2_Flu plus^1^Flu A^NEGATIVE^||||F||John Doe|20210713122726|20210713130313|CepheidVM-PC^700475^613245^472753121^00500^20211226|
R|9|^COVFLUPLUS^^FLUA^Flu A 1^NEG^|||
R|10|^COVFLUPLUS^^FLUA^Flu A 1^Ct|^0.0|||
R|11|^COVFLUPLUS^^FLUA^Flu A 1^EndPt|^6.0|||
R|12|^COVFLUPLUS^^FLUA^Flu A 2^NEG^|||
R|13|^COVFLUPLUS^^FLUA^Flu A 2^Ct|^0.0|||
R|14|^COVFLUPLUS^^FLUA^Flu A 2^EndPt|^1.0|||
R|15|^COVFLUPLUS^^FLUA^SPC^NA^|||
R|16|^COVFLUPLUS^^FLUA^SPC^Ct|^29.8|||
R|17|^COVFLUPLUS^^FLUB^Xpress SARS-CoV-2_Flu plus^1^Flu B^POSITIVE^||||F||John Doe|20210713122726|20210713130313|CepheidVM-PC^700475^613245^472753121^00500^20211226|
R|18|^COVFLUPLUS^^FLUB^Flu B^Ct|^29.1|||
R|19|^COVFLUPLUS^^FLUB^Flu B^EndPt|^742.0|||
R|20|^COVFLUPLUS^^FLUB^Flu B^Ct|^29.1|||
R|21|^COVFLUPLUS^^FLUB^Flu B^EndPt|^742.0|||
R|22|^COVFLUPLUS^^FLUB^SPC^NA^|||
R|23|^COVFLUPLUS^^FLUB^SPC^Ct|^29.8|||
R|24|^COVFLUPLUS^^FLUB^SPC^EndPt|^142.0|||
L|1|N

```

### 6.2.1.5 Example ASTM Message: “SARS-CoV-2: Positive, FLU A: Positive, FLU B: Positive, RSV: N.A.”

SARS-CoV-2	FLU A	FLU B	RSV
Positive	Positive	Positive	N.A.

```

H|@|^GXM-31413501148||GeneXpert PC^GeneXpert^6.3||||LIS||P|1394-97|20210809120238
P|1|||||^|||||||||||||||
O|1|15_CoV2_FluA_FluB_RSV_b|||^COVFLUPLUS|R|20210713123507|||||||ORH|||||||F
R|1|^COVFLUPLUS^^SARSCOV2^Xpress SARS-CoV-2_Flu plus^1^SARS-CoV-2|^POS^|||
R|2|^COVFLUPLUS^^SARSCOV2^^SARS-CoV-2|^POS^|||
R|3|^COVFLUPLUS^^SARSCOV2^^SARS-CoV-2^Ct|^30.9|||
R|4|^COVFLUPLUS^^SARSCOV2^^SARS-CoV-2^EndPt|^398.0|||
R|5|^COVFLUPLUS^^SARSCOV2^^SPC^|NA^|||
R|6|^COVFLUPLUS^^SARSCOV2^^SPC^Ct|^30.4|||
R|7|^COVFLUPLUS^^SARSCOV2^^SPC^EndPt|^95.0|||
R|8|^COVFLUPLUS^^FLUA^Xpress SARS-CoV-2_Flu plus^1^Flu A|^POS^|||
R|9|^COVFLUPLUS^^FLUA^^Flu A 1|^Ct|^30.1|||
R|10|^COVFLUPLUS^^FLUA^^Flu A 1^EndPt|^399.0|||
R|11|^COVFLUPLUS^^FLUA^^Flu A 2|^POS^|||
R|12|^COVFLUPLUS^^FLUA^^Flu A 2^Ct|^35.9|||
R|13|^COVFLUPLUS^^FLUA^^Flu A 2^EndPt|^159.0|||
R|14|^COVFLUPLUS^^FLUA^^Flu A 2^EndPt|^159.0|||
R|15|^COVFLUPLUS^^FLUA^^SPC^|NA^|||
R|16|^COVFLUPLUS^^FLUA^^SPC^Ct|^30.4|||
R|17|^COVFLUPLUS^^FLUB^Xpress SARS-CoV-2_Flu plus^1^Flu B|^POS^|||
R|18|^COVFLUPLUS^^FLUB^Xpress SARS-CoV-2_Flu plus^1^Flu B|^POS^|||
R|19|^COVFLUPLUS^^FLUB^^Flu B|^POS^|||
R|20|^COVFLUPLUS^^FLUB^^Flu B^Ct|^29.0|||
R|21|^COVFLUPLUS^^FLUB^^Flu B^EndPt|^479.0|||
R|22|^COVFLUPLUS^^FLUB^^SPC^|NA^|||
R|23|^COVFLUPLUS^^FLUB^^SPC^Ct|^30.4|||
R|24|^COVFLUPLUS^^FLUB^^SPC^EndPt|^95.0|||
L|1|N

```

### 6.2.1.6 Example ASTM Message: “SARS-CoV-2: Error”

SARS-CoV-2		FLU A	FLU B	RSV
Error		Error	Error	N.A.

```

H|@|^|GXM-52657545660||GeneXpert PC^GeneXpert 6.3||||LIS||P|1394-97|20210809120239
P|1|||||^|||||||||||||||||||
O|1|14_FluA_FluB_RSV_b|^^COVFLUPLUS|R|20210713123358|||||||ORH|||||||F
R|1|^COVFLUPLUS^^SARSCOV2^Xpress SARS-CoV-2_Flu plus^1^SARS-CoV-2|^ERROR|^|||F| John Doe |20210713123358|20210713124719|CepheidVM-PC^714107^607591^472753088^00500^20211226|
C|1|||Error^2008^Operation terminated^Error 2008: Syringe pressure reading of 100.0 PSI exceeds the protocol limit of 100.0 PSI^20210713124706|N
R|2|^COVFLUPLUS^^SARSCOV2^^SARS-CoV-2|^NO RESULT|^|||
R|3|^COVFLUPLUS^^SARSCOV2^^SARS-CoV-2^Ct|^0.0|||
R|4|^COVFLUPLUS^^SARSCOV2^^SARS-CoV-2^EndPt|^0.0|||
R|5|^COVFLUPLUS^^SARSCOV2^^SPC^|NO RESULT|^|||
R|6|^COVFLUPLUS^^SARSCOV2^^SPC^Ct|^0.0|||
R|7|^COVFLUPLUS^^SARSCOV2^^SPC^EndPt|^0.0|||
R|8|^COVFLUPLUS^^FLUA^Xpress SARS-CoV-2_Flu plus^1^Flu A|^ERROR|^|||F| John Doe |20210713123358|20210713124719|CepheidVM-PC^714107^607591^472753088^00500^20211226|
C|1|||Error^2008^Operation terminated^Error 2008: Syringe pressure reading of 100.0 PSI exceeds the protocol limit of 100.0 PSI^20210713124706|N
R|9|^COVFLUPLUS^^FLUA^^Flu A 1|^NO RESULT|^|||
R|10|^COVFLUPLUS^^FLUA^^Flu A 1^Ct|^0.0|||
R|11|^COVFLUPLUS^^FLUA^^Flu A 1^EndPt|^0.0|||
R|12|^COVFLUPLUS^^FLUA^^Flu A 2|^NO RESULT|^|||
R|13|^COVFLUPLUS^^FLUA^^Flu A 2^Ct|^0.0|||
R|14|^COVFLUPLUS^^FLUA^^Flu A 2^EndPt|^0.0|||
R|15|^COVFLUPLUS^^FLUA^^SPC^|NO RESULT|^|||
R|16|^COVFLUPLUS^^FLUA^^SPC^Ct|^0.0|||
R|17|^COVFLUPLUS^^FLUA^^SPC^EndPt|^0.0|||
R|18|^COVFLUPLUS^^FLUB^Xpress SARS-CoV-2_Flu plus^1^Flu B|^ERROR|^|||F| John Doe |20210713123358|20210713124719|CepheidVM-PC^714107^607591^472753088^00500^20211226|
C|1|||Error^2008^Operation terminated^Error 2008: Syringe pressure reading of 100.0 PSI exceeds the protocol limit of 100.0 PSI^20210713124706|N
R|19|^COVFLUPLUS^^FLUB^^Flu B|^NO RESULT|^|||
R|20|^COVFLUPLUS^^FLUB^^Flu B^Ct|^0.0|||
R|21|^COVFLUPLUS^^FLUB^^Flu B^EndPt|^0.0|||
R|22|^COVFLUPLUS^^FLUB^^SPC^|NO RESULT|^|||
R|23|^COVFLUPLUS^^FLUB^^SPC^Ct|^0.0|||
R|24|^COVFLUPLUS^^FLUB^^SPC^EndPt|^0.0|||
L|1|N

```

### 6.2.1.7 Example ASTM Message: “SARS-CoV-2: Invalid”

SARS-CoV-2	FLU A	FLU B	RSV
Invalid	Invalid	Invalid	N.A.

```

H|@|^GXM-66263131232||GeneXpert PC^GeneXpert^6.3||||LIS||P|1394-97|20210809120237
P|1|||||^|||||||||||||||
O|1|Test-2||^COVFLUPLUS|R|20210804145359||||||ORH||||||F| John Doe |20210804145359|20210804153036|CepheidVM-PC^714106^711453^472753073^00500^20211226|
R|2|^COVFLUPLUS^^SARSCOV2^Xpress SARS-CoV-2_Flu plus^1^SARS-CoV-2^|INVALID^|||||F| John Doe |20210804145359|20210804153036|CepheidVM-PC^714106^711453^472753073^00500^20211226|
R|3|^COVFLUPLUS^^SARSCOV2^^SARS-CoV-2^|INVALID^|||
R|4|^COVFLUPLUS^^SARSCOV2^^SARS-CoV-2^Ct|^0.0|||
R|5|^COVFLUPLUS^^SARSCOV2^^SPC^|FAIL^|||
R|6|^COVFLUPLUS^^SARSCOV2^^SPC^Ct|^0.0|||
R|7|^COVFLUPLUS^^SARSCOV2^^SPC^EndPt|^0.0|||
R|8|^COVFLUPLUS^^FLUA^Xpress SARS-CoV-2_Flu plus^1^Flu A^|INVALID^|||||F| John Doe |20210804145359|20210804153036|CepheidVM-PC^714106^711453^472753073^00500^20211226|
R|9|^COVFLUPLUS^^FLUA^^Flu A 1^|INVALID^|||
R|10|^COVFLUPLUS^^FLUA^^Flu A 1^Ct|^0.0|||
R|11|^COVFLUPLUS^^FLUA^^Flu A 1^EndPt|^2.0|||
R|12|^COVFLUPLUS^^FLUA^^Flu A 2^|INVALID^|||
R|13|^COVFLUPLUS^^FLUA^^Flu A 2^Ct|^0.0|||
R|14|^COVFLUPLUS^^FLUA^^Flu A 2^EndPt|^1.0|||
R|15|^COVFLUPLUS^^FLUA^^SPC^|FAIL^|||
R|16|^COVFLUPLUS^^FLUA^^SPC^Ct|^0.0|||
R|17|^COVFLUPLUS^^FLUA^^SPC^EndPt|^0.0|||
R|18|^COVFLUPLUS^^FLUB^Xpress SARS-CoV-2_Flu plus^1^Flu B^|INVALID^|||||F| John Doe |20210804145359|20210804153036|CepheidVM-PC^714106^711453^472753073^00500^20211226|
R|19|^COVFLUPLUS^^FLUB^^Flu B^|INVALID^|||
R|20|^COVFLUPLUS^^FLUB^^Flu B^Ct|^0.0|||
R|21|^COVFLUPLUS^^FLUB^^Flu B^EndPt|^2.0|||
R|22|^COVFLUPLUS^^FLUB^^SPC^|FAIL^|||
R|23|^COVFLUPLUS^^FLUB^^SPC^Ct|^0.0|||
R|24|^COVFLUPLUS^^FLUB^^SPC^EndPt|^0.0|||
L|1|N

```

## 6.2.2 Example HL7 Messages

### 6.2.2.1 Example HL7 Message: "SARS-CoV-2: Negative, FLU A: Negative, FLU B: Negative, RSV: N.A."

SARS-CoV-2	FLU A	FLU B	RSV
Negative	Negative	Negative	N.A.

MSH|^~\&|GeneXpert PC^GeneXpert^6.3||LIS||20210809115943||ORU^R32^ORU\_R30|GXM-37346235387|P|2.5|||||||  
PID|1||||^|||^|||^|||  
ORC|RE|1|||||20210713122825  
OBR|1||COVFLUPLUS|||||||||F  
TQ1|||||20210713122825|20210713130451|R  
OBX|1|ST|COVFLUPLUS&SARSCOV2&|Xpress SARS-CoV-2\_Flu plus&1|SARS-CoV-2&|NEGATIVE^|||||F|||||^ John Doe ||20211226~00500~472753118~765011~703691~CepheidVM-PC  
OBX|2|ST|COVFLUPLUS&SARSCOV2&&|SARS-CoV-2&|NEG^||  
OBX|3|ST|COVFLUPLUS&SARSCOV2&&|SARS-CoV-2&Ct|^0.0||  
OBX|4|ST|COVFLUPLUS&SARSCOV2&&|SARS-CoV-2&EndPt|^1.0||  
OBX|5|ST|COVFLUPLUS&SARSCOV2&&|SPC&|PASS^||  
OBX|6|ST|COVFLUPLUS&SARSCOV2&&|SPC&Ct|^29.4||  
OBX|7|ST|COVFLUPLUS&SARSCOV2&&|SPC&EndPt|^151.0||  
OBX|8|ST|COVFLUPLUS&FLUA&&|Xpress SARS-CoV-2\_Flu plus&1|Flu A &|NEGATIVE^|||||F|||||^ John Doe ||20211226~00500~472753118~765011~703691~CepheidVM-PC  
OBX|9|ST|COVFLUPLUS&FLUA&&|Flu A 1 &|NEG^||  
OBX|10|ST|COVFLUPLUS&FLUA&&|Flu A 1&Ct|^0.0||  
OBX|11|ST|COVFLUPLUS&FLUA&&|Flu A 1&EndPt|^0.0||  
OBX|12|ST|COVFLUPLUS&FLUA&&|Flu A 2&|NEG^||  
OBX|13|ST|COVFLUPLUS&FLUA&&|Flu A 2&Ct|^0.0||  
OBX|14|ST|COVFLUPLUS&FLUA&&|Flu A 2&EndPt|^6.0||  
OBX|15|ST|COVFLUPLUS&FLUA&&|SPC&|PASS^||  
OBX|16|ST|COVFLUPLUS&FLUA&&|SPC&Ct|^29.4||  
OBX|17|ST|COVFLUPLUS&FLUA&&|SPC&EndPt|^151.0||  
OBX|18|ST|COVFLUPLUS&FLUB&&|Xpress SARS-CoV-2\_Flu plus&1|Flu B &|NEGATIVE^|||||F|||||^ John Doe ||20211226~00500~472753118~765011~703691~CepheidVM-PC  
OBX|19|ST|COVFLUPLUS&FLUB&&|Flu B &|NEG^||  
OBX|20|ST|COVFLUPLUS&FLUB&&|Flu B &Ct|^0.0||  
OBX|21|ST|COVFLUPLUS&FLUB&&|Flu B &EndPt|^5.0||  
OBX|22|ST|COVFLUPLUS&FLUB&&|SPC&|PASS^||  
OBX|23|ST|COVFLUPLUS&FLUB&&|SPC&Ct|^29.4||  
OBX|24|ST|COVFLUPLUS&FLUB&&|SPC&EndPt|^151.0||  
SPM|1|4.\_RSV\_.b|^||ORH|||||||

### 6.2.2.2 Example HL7 Message: “SARS-CoV-2: Positive, FLU A: Negative, FLU B: Negative, RSV: N.A.”

SARS-CoV-2	FLU A	FLU B	RSV
Positive	Negative	Negative	N.A.

```

MSH|^~\&|GeneXpert PC^GeneXpert^6.3||LIS||20210820145525||ORU^R32^ORU_R30|GXM-25056773506|P|2.5|||||||
PID|1|||||^|||||^|||||^|||||||
ORC|RE|1|||||20210713122449
OBR|1|||COVFLUPLUS|||||||||F
TQ1|||||20210713122449|20210713130112|R
OBX|1|ST|COVFLUPLUS&SARSCOV2&|xpress SARS-CoV-2_Flu plus&1|SARS-CoV-2&|POSITIVE^|||||F|||||^John Doe||20211226~00500~472753127~693225~702201~CepheidVM-PC
OBX|2|ST|COVFLUPLUS&SARSCOV2&|SARS-CoV-2&|POS^|
OBX|3|ST|COVFLUPLUS&SARSCOV2&&|SARS-CoV-2&|Cl|^31.0|
OBX|4|ST|COVFLUPLUS&SARSCOV2&&|SARS-CoV-2&EndPt|^431.0|
OBX|5|ST|COVFLUPLUS&SARSCOV2&&|SPC&|NA^|
OBX|6|ST|COVFLUPLUS&SARSCOV2&&|SPC&|Cl|^29.7|
OBX|7|ST|COVFLUPLUS&SARSCOV2&&|SPC&EndPt|^133.0|
OBX|8|ST|COVFLUPLUS&FLUA&xpress SARS-CoV-2_Flu plus&1|Flu A&|NEGATIVE^|||||F|||||^John Doe||20211226~00500~472753127~693225~702201~CepheidVM-PC
OBX|9|ST|COVFLUPLUS&FLUA&&|Flu A 1&|NEG^|
OBX|10|ST|COVFLUPLUS&FLUA&&|Flu A 1&|Cl|^0.0|
OBX|11|ST|COVFLUPLUS&FLUA&&|Flu A 1&|EndPt|^2.0|
OBX|12|ST|COVFLUPLUS&FLUA&&|Flu A 2&|NEG^|
OBX|13|ST|COVFLUPLUS&FLUA&&|Flu A 2&|Cl|^0.0|
OBX|14|ST|COVFLUPLUS&FLUA&&|Flu A 2&|EndPt|^0.0|
OBX|15|ST|COVFLUPLUS&FLUA&&|SPC&|NA^|
OBX|16|ST|COVFLUPLUS&FLUA&&|SPC&|Cl|^29.7|
OBX|17|ST|COVFLUPLUS&FLUA&&|SPC&EndPt|^133.0|
OBX|18|ST|COVFLUPLUS&FLUB&xpress SARS-CoV-2_Flu plus&1|Flu B&|NEGATIVE^|||||F|||||^John Doe||20211226~00500~472753127~693225~702201~CepheidVM-PC
OBX|19|ST|COVFLUPLUS&FLUB&&|Flu B&|NEG^|
OBX|20|ST|COVFLUPLUS&FLUB&&|Flu B&|Cl|^0.0|
OBX|21|ST|COVFLUPLUS&FLUB&&|Flu B&|EndPt|^2.0|
OBX|22|ST|COVFLUPLUS&FLUB&&|SPC&|NA^|
OBX|23|ST|COVFLUPLUS&FLUB&&|SPC&|Cl|^29.7|
OBX|24|ST|COVFLUPLUS&FLUB&&|SPC&EndPt|^133.0|
SPM|1|CoV2_b^||ORH|||||P

```

### 6.2.2.3 Example HL7 Message: “SARS-CoV-2: Negative, FLU A: Positive, FLU B: Negative, RSV: N.A.”

SARS-CoV-2	FLU A	FLU B	RSV
Negative	Positive	Negative	N.A.

```

MSH|^~\&|GeneXpert PC^GeneXpert^6.3||LIS||20210820145524||ORU^R32^ORU_R30|GXM-73055560823|P|2.5|||||||
PID|1|||||^|||||^|||||^|||||||
ORC|RE|1||||||20210713122600
OBR|1|||COVFLUPLUS||||||||||||F
TQ1||||||20210713122600|20210713130203|R
OBX|1|ST|COVFLUPLUS&SARSCOV2&|xpress SARS-CoV-2_Flu plus&1|SARS-CoV-2&|NEGATIVE^|||||F|||||^John Doe|20211226~00500~472753124~719197~702201~CepheidVM-PC
OBX|2|ST|COVFLUPLUS&SARSCOV2&&|SARS-CoV-2&|NEG^|
OBX|3|ST|COVFLUPLUS&SARSCOV2&&|SARS-CoV-2&|C|`0.0|
OBX|4|ST|COVFLUPLUS&SARSCOV2&&|SARS-CoV-2&EndPt|^1.0||
OBX|5|ST|COVFLUPLUS&SARSCOV2&&|SPC&|NA^|
OBX|6|ST|COVFLUPLUS&SARSCOV2&&|SPC&C|`29.0||
OBX|7|ST|COVFLUPLUS&SARSCOV2&&|SPC&EndPt|^167.0||
OBX|8|ST|COVFLUPLUS&FLUA&xpress SARS-CoV-2_Flu plus&1|Flu A&|POSITIVE^|||||F|||||^John Doe|20211226~00500~472753124~719197~702201~CepheidVM-PC
OBX|9|ST|COVFLUPLUS&FLUA&&|Flu A 1&|POS^|
OBX|10|ST|COVFLUPLUS&FLUA&&|Flu A 1&Ct|^30.0||
OBX|11|ST|COVFLUPLUS&FLUA&&|Flu A 18&EndPt|^752.0||
OBX|12|ST|COVFLUPLUS&FLUA&&|Flu A 2&|POS^|
OBX|13|ST|COVFLUPLUS&FLUA&&|Flu A 2&Ct|^33.7||
OBX|14|ST|COVFLUPLUS&FLUA&&|Flu A 28&EndPt|^237.0||
OBX|15|ST|COVFLUPLUS&FLUA&&|SPC&|NA^|
OBX|16|ST|COVFLUPLUS&FLUA&&|SPC&C|`29.0||
OBX|17|ST|COVFLUPLUS&FLUA&&|SPC&EndPt|^167.0||
OBX|18|ST|COVFLUPLUS&FLUB&xpress SARS-CoV-2_Flu plus&1|Flu B&|NEGATIVE^|||||F|||||^John Doe|20211226~00500~472753124~719197~702201~CepheidVM-PC
OBX|19|ST|COVFLUPLUS&FLUB&&|Flu B&|NEG^|
OBX|20|ST|COVFLUPLUS&FLUB&&|Flu B&Ct|^0.0||
OBX|21|ST|COVFLUPLUS&FLUB&&|Flu B&EndPt|^`3.0||
OBX|22|ST|COVFLUPLUS&FLUB&&|SPC&|NA^|
OBX|23|ST|COVFLUPLUS&FLUB&&|SPC&C|`29.0||
OBX|24|ST|COVFLUPLUS&FLUB&&|SPC&EndPt|^167.0||
SPM|1|2_FluA_b^||ORH|||||P

```

#### 6.2.2.4 Example HL7 Message: “SARS-CoV-2: Negative, FLU A: Negative, FLU B: Positive, RSV: N.A.”

SARS-CoV-2	FLU A	FLU B	RSV
Negative	Negative	Positive	N.A.

```

MSH|^~\&|GeneXpert PC^GeneXpert^6.3||LIS||20210820145522||ORU^R32^ORU_R30|GXM-14800552152|P|2.5|||||||
PID|1|||||^|||||^|||||^|||||||
ORC|RE|1|||||20210713122726
OBR|1|||COVFLUPLUS|||||||||F
TQ1|||||20210713122726|20210713130313|R
OBX|1|ST|COVFLUPLUS&SARSCOV2&|xpress SARS-CoV-2_Flu plus&1|SARS-CoV-2&|NEGATIVE^|||||F|||||^John Doe||20211226~00500~472753121~613245~700475~CepheidVM-PC
OBX|2|ST|COVFLUPLUS&SARSCOV2&&|SARS-CoV-2&|NEG^|
OBX|3|ST|COVFLUPLUS&SARSCOV2&&|SARS-CoV-2&|C|^\0.0|
OBX|4|ST|COVFLUPLUS&SARSCOV2&&|SARS-CoV-2&EndPt|^\0.0|
OBX|5|ST|COVFLUPLUS&SARSCOV2&&|SPC&|NA^|
OBX|6|ST|COVFLUPLUS&SARSCOV2&&|SPC&|C|^\29.8|
OBX|7|ST|COVFLUPLUS&SARSCOV2&&|SPC&EndPt|^\142.0|
OBX|8|ST|COVFLUPLUS&FLUA&xpress SARS-CoV-2_Flu plus&1|Flu A&|NEGATIVE^|||||F|||||^John Doe||20211226~00500~472753121~613245~700475~CepheidVM-PC
OBX|9|ST|COVFLUPLUS&FLUA&&|Flu A 1&|NEG^|
OBX|10|ST|COVFLUPLUS&FLUA&&|Flu A 1&Ct|^\0.0|
OBX|11|ST|COVFLUPLUS&FLUA&&|Flu A 1&EndPt|^\~6.0|
OBX|12|ST|COVFLUPLUS&FLUA&&|Flu A 2&|NEG^|
OBX|13|ST|COVFLUPLUS&FLUA&&|Flu A 2&Ct|^\0.0|
OBX|14|ST|COVFLUPLUS&FLUA&&|Flu A 2&EndPt|^\1.0|
OBX|15|ST|COVFLUPLUS&FLUA&&|SPC&|NA^|
OBX|16|ST|COVFLUPLUS&FLUA&&|SPC&|C|^\29.8|
OBX|17|ST|COVFLUPLUS&FLUA&&|SPC&EndPt|^\142.0|
OBX|18|ST|COVFLUPLUS&FLUB&xpress SARS-CoV-2_Flu plus&1|Flu B&|POSITIVE^|||||F|||||^John Doe||20211226~00500~472753121~613245~700475~CepheidVM-PC
OBX|19|ST|COVFLUPLUS&FLUB&&|Flu B&|POS^|
OBX|20|ST|COVFLUPLUS&FLUB&&|Flu B&Ct|^\29.1|
OBX|21|ST|COVFLUPLUS&FLUB&&|Flu B&EndPt|^\742.0|
OBX|22|ST|COVFLUPLUS&FLUB&&|SPC&|NA^|
OBX|23|ST|COVFLUPLUS&FLUB&&|SPC&|C|^\29.8|
OBX|24|ST|COVFLUPLUS&FLUB&&|SPC&EndPt|^\142.0|
SPM|1|3_FluB_b^||ORH|||||P

```

#### 6.2.2.5 Example HL7 Message: “SARS-CoV-2: Positive, FLU A: Positive, FLU B: Positive, RSV: N.A.”

SARS-CoV-2	FLU A	FLU B	RSV
Positive	Positive	Positive	N.A.

```

MSH|^~\&|GeneXpert PC^GeneXpert^6.3||LIS||20210809115943||ORU^R32^ORU_R30|GXM-37346235387|P|2.5|||||||
PID|1|||||^|||||^|||||||
ORC|RE|1|||||20210713122825
OBR|1|||COVFLUPLUS|||||||||||F
TQ1|||||20210713122825|20210713130451|R
OBX|1|ST|COVFLUPLUS&SARSCOV2&|xpress SARS-CoV-2_Flu plus&1|SARS-CoV-2&|NEGATIVE^|||||F|||||^ John Doe |||20211226~00500~472753118~765011~703691~CepheidVM-PC
OBX|2|ST|COVFLUPLUS&SARSCOV2&|SARS-CoV-2&|NEG^|
OBX|3|ST|COVFLUPLUS&SARSCOV2&&|SARS-CoV-2&|C|`0.0|
OBX|4|ST|COVFLUPLUS&SARSCOV2&&|SARS-CoV-2&EndPt|^1.0||
OBX|5|ST|COVFLUPLUS&SARSCOV2&&|SPC&|PASS^|
OBX|6|ST|COVFLUPLUS&SARSCOV2&&|SPC&|C|`29.4|
OBX|7|ST|COVFLUPLUS&SARSCOV2&&|SPC&EndPt|^151.0|
OBX|8|ST|COVFLUPLUS&FLUA&xpress SARS-CoV-2_Flu plus&1|Flu A&|NEGATIVE^|||||F|||||^ John Doe |||20211226~00500~472753118~765011~703691~CepheidVM-PC
OBX|9|ST|COVFLUPLUS&FLUA&&|Flu A 1&|NEG^|
OBX|10|ST|COVFLUPLUS&FLUA&&|Flu A 1&Ct|^0.0|
OBX|11|ST|COVFLUPLUS&FLUA&&|Flu A 18&EndPt|^0.0|
OBX|12|ST|COVFLUPLUS&FLUA&&|Flu A 2&|NEG^|
OBX|13|ST|COVFLUPLUS&FLUA&&|Flu A 2&Ct|^0.0|
OBX|14|ST|COVFLUPLUS&FLUA&&|Flu A 2&EndPt|^~6.0|
OBX|15|ST|COVFLUPLUS&FLUA&&|SPC&|PASS^|
OBX|16|ST|COVFLUPLUS&FLUA&&|SPC&|C|`29.4|
OBX|17|ST|COVFLUPLUS&FLUA&&|SPC&EndPt|^151.0|
OBX|18|ST|COVFLUPLUS&FLUB&xpress SARS-CoV-2_Flu plus&1|Flu B&|NEGATIVE^|||||F|||||^ John Doe |||20211226~00500~472753118~765011~703691~CepheidVM-PC
OBX|19|ST|COVFLUPLUS&FLUB&&|Flu B&|NEG^|
OBX|20|ST|COVFLUPLUS&FLUB&&|Flu B&Ct|^0.0|
OBX|21|ST|COVFLUPLUS&FLUB&&|Flu B&EndPt|^~5.0|
OBX|22|ST|COVFLUPLUS&FLUB&&|SPC&|PASS^|
OBX|23|ST|COVFLUPLUS&FLUB&&|SPC&|C|`29.4|
OBX|24|ST|COVFLUPLUS&FLUB&&|SPC&EndPt|^151.0|
SPM|1|4_RSV_b^||ORH|||||P

```

## 6.2.2.6 Example HL7 Message: “SARS-CoV-2: Error”

SARS-CoV-2	FLU A	FLU B	RSV
Error	Error	Error	N.A.

```
MSH|^~\&|GeneXpert PC^GeneXpert^6.3||LIS||20210809115941||ORU^R32^ORU_R30|GXM-70488807826|P|2.5|||||||
PID|1|||||^|^|^||||||^|^|^|||||| |
ORC|RE|1|||||20210713123358
OBR|1|||COVFLUPLUS|||||||||||F
TQ1|||||20210713123358|20210713124719|R
OBX|1|ST|COVFLUPLUS&SARSCOV2&|Xpress SARS-CoV-2_Flu plus&1|SARS-CoV-2&|ERROR|^|||||F|||||^ John Doe |||20211226~00500~472753088~607591~714107~CepheidVM-PC
NTE|1|L|Error^2008^Operation terminated^Error 2008: Syringe pressure reading of 100.0 PSI exceeds the protocol limit of 100.0 PSI^20210713124706
OBX|2|ST|COVFLUPLUS&SARSCOV2&&|SARS-CoV-2&|NO RESULT^||
OBX|3|ST|COVFLUPLUS&SARSCOV2&&|SARS-CoV-2&Ct|^0.0||
OBX|4|ST|COVFLUPLUS&SARSCOV2&&|SARS-CoV-2&EndPt|^0.0||
OBX|5|ST|COVFLUPLUS&SARSCOV2&&|SPC&|NO RESULT^||
OBX|6|ST|COVFLUPLUS&SARSCOV2&&|SPC&Ct|^0.0||
OBX|7|ST|COVFLUPLUS&SARSCOV2&&|SPC&EndPt|^0.0||
OBX|8|ST|COVFLUPLUS&FLUA&|Xpress SARS-CoV-2_Flu plus&1|Flu A&|ERROR|^|||||F|||||^ John Doe |||20211226~00500~472753088~607591~714107~CepheidVM-PC
NTE|1|L|Error^2008^Operation terminated^Error 2008: Syringe pressure reading of 100.0 PSI exceeds the protocol limit of 100.0 PSI^20210713124706
OBX|9|ST|COVFLUPLUS&FLUA&&|Flu A 1&|NO RESULT^||
OBX|10|ST|COVFLUPLUS&FLUA&&|Flu A 1&Ct|^0.0||
OBX|11|ST|COVFLUPLUS&FLUA&&|Flu A 1&EndPt|^0.0||
OBX|12|ST|COVFLUPLUS&FLUA&&|Flu A 2&|NO RESULT^||
OBX|13|ST|COVFLUPLUS&FLUA&&|Flu A 2&Ct|^0.0||
OBX|14|ST|COVFLUPLUS&FLUA&&|Flu A 2&EndPt|^0.0||
OBX|15|ST|COVFLUPLUS&FLUA&&|SPC&|NO RESULT^||
OBX|16|ST|COVFLUPLUS&FLUA&&|SPC&Ct|^0.0||
OBX|17|ST|COVFLUPLUS&FLUA&&|SPC&EndPt|^0.0||
OBX|18|ST|COVFLUPLUS&FLUB&|Xpress SARS-CoV-2_Flu plus&1|Flu B&|ERROR|^|||||F|||||^ John Doe |||20211226~00500~472753088~607591~714107~CepheidVM-PC
NTE|1|L|Error^2008^Operation terminated^Error 2008: Syringe pressure reading of 100.0 PSI exceeds the protocol limit of 100.0 PSI^20210713124706
OBX|19|ST|COVFLUPLUS&FLUB&&|Flu B&|NO RESULT^||
OBX|20|ST|COVFLUPLUS&FLUB&&|Flu B&Ct|^0.0||
OBX|21|ST|COVFLUPLUS&FLUB&&|Flu B&EndPt|^0.0||
OBX|22|ST|COVFLUPLUS&FLUB&&|SPC&|NO RESULT^||
OBX|23|ST|COVFLUPLUS&FLUB&&|SPC&Ct|^0.0||
OBX|24|ST|COVFLUPLUS&FLUB&&|SPC&EndPt|^0.0||
SPM|1|14_FluA_FluB_RSV_b^||ORH||||||P
```

### 6.2.2.7 Example HL7 Message: “SARS-CoV-2: Invalid”

SARS-CoV-2	FLU A	FLU B	RSV
Invalid	Invalid	Invalid	N.A.

```
MSH|^~\&|GeneXpert PC^GeneXpert^6.3||LIS||20210809115938||ORU^R32^ORU_R30|GXM-05115888235|P|2.5|||||||  
PID|1|||||^|||||^|||||^|||||  
ORC|RE|1|||||20210804145359  
OBR|1|||COVFLUPLUS|||||||||||||  
TQ1|||||20210804145359|20210804153036|R  
OBX|1|ST|COVFLUPLUS&SARSCOV2&Xpress SARS-CoV-2_Flu plus&1|SARS-CoV-2&|INVALID^|||||F|||||^ John Doe ||20211226~00500~472753073~711453~714106~CepheidVM-PC  
OBX|2|ST|COVFLUPLUS&SARSCOV2&&|SARS-CoV-2&|INVALID^|||  
OBX|3|ST|COVFLUPLUS&SARSCOV2&&|SARS-CoV-2&|C|^\0.0|||  
OBX|4|ST|COVFLUPLUS&SARSCOV2&&|SARS-CoV-2&EndPt|^\1.0|||  
OBX|5|ST|COVFLUPLUS&SARSCOV2&&|SPC&|FAIL^|||  
OBX|6|ST|COVFLUPLUS&SARSCOV2&&|SPC&|C|^\0.0|||  
OBX|7|ST|COVFLUPLUS&SARSCOV2&&|SPC&EndPt|^\0.0|||  
OBX|8|ST|COVFLUPLUS&FLUA&Xpress SARS-CoV-2_Flu plus&1|Flu A&|INVALID^|||||F|||||^ John Doe ||20211226~00500~472753073~711453~714106~CepheidVM-PC  
OBX|9|ST|COVFLUPLUS&FLUA&&|Flu A 1&|INVALID^|||  
OBX|10|ST|COVFLUPLUS&FLUA&&|Flu A 1&|C|^\0.0|||  
OBX|11|ST|COVFLUPLUS&FLUA&&|Flu A 1&|EndPt|^\2.0|||  
OBX|12|ST|COVFLUPLUS&FLUA&&|Flu A 2&|INVALID^|||  
OBX|13|ST|COVFLUPLUS&FLUA&&|Flu A 2&|C|^\0.0|||  
OBX|14|ST|COVFLUPLUS&FLUA&&|Flu A 2&|EndPt|^\1.0|||  
OBX|15|ST|COVFLUPLUS&FLUA&&|SPC&|FAIL^|||  
OBX|16|ST|COVFLUPLUS&FLUA&&|SPC&|C|^\0.0|||  
OBX|17|ST|COVFLUPLUS&FLUA&&|SPC&EndPt|^\0.0|||  
OBX|18|ST|COVFLUPLUS&FLUB&Xpress SARS-CoV-2_Flu plus&1|Flu B&|INVALID^|||||F|||||^ John Doe ||20211226~00500~472753073~711453~714106~CepheidVM-PC  
OBX|19|ST|COVFLUPLUS&FLUB&&|Flu B&|INVALID^|||  
OBX|20|ST|COVFLUPLUS&FLUB&&|Flu B&|C|^\0.0|||  
OBX|21|ST|COVFLUPLUS&FLUB&&|Flu B&|EndPt|^\2.0|||  
OBX|22|ST|COVFLUPLUS&FLUB&&|SPC&|FAIL^|||  
OBX|23|ST|COVFLUPLUS&FLUB&&|SPC&|C|^\0.0|||  
OBX|24|ST|COVFLUPLUS&FLUB&&|SPC&EndPt|^\0.0|||  
SPM|1|Test-2^|ORH|||||P
```

## 6.3 Example Messages for Panel: Xpress SARS-CoV-2 plus

### 6.3.1 Example ASTM Messages

#### 6.3.1.1 Example ASTM Message: "SARS-CoV-2: Negative, FLU A: N.A., FLU B: N.A., RSV: N.A."

SARS-CoV-2	FLU A	FLU B	RSV
Negative	N.A.	N.A.	N.A.

```
H|@|^GXM-48410782286||GeneXpert PC^GeneXpert^6.3||||LIS||P|1394-97|20210809115039
P|1|||||^|||||||||||||||||||||||
O|1|9_FluA_RSV_a|||^COVPLUS|R|20210713123701|||||||ORH|||||||F
R|1|^|^COVPLUS^Xpress SARS-CoV-2 plus^1^|^NEGATIVE^|||F| John Doe |20210713123701|20210713131312|CepheidVM-PC^723207^705204^472753104^00500^20211226|
R|2|^|^COVPLUS^SARS-CoV-2^|NEG^|||
R|3|^|^COVPLUS^SARS-CoV-2^C1|^0.0|||
R|4|^|^COVPLUS^SARS-CoV-2^EndPt|^1.0|||
R|5|^|^COVPLUS^SPC^|PASS^|||
R|6|^|^COVPLUS^SPC^C|^29.9|||
R|7|^|^COVPLUS^SPC^EndPt|^129.0|||
L|1|N
```

## 6.3.1.2 Example ASTM Message: “SARS-CoV-2: Positive, FLU A: N.A., FLU B: N.A., RSV: N.A.”

SARS-CoV-2	FLU A	FLU B	RSV
Positive	N.A.	N.A.	N.A.

H|@|^GXM-82175750262||GeneXpert PC^GeneXpert^6.3||||LIS||P|1394-97|20210809115128  
P|1|||||^|||||||||||||||||||||  
O|1|15\_CoV2\_FluA\_FluB\_RSV\_a|||^COVPLUS|R|20210713123455||||||ORH|||||||F  
R|1|^COVPLUS^Xpress SARS-CoV-2 plus^1^|POSITIVE^|||||F|| John Doe |20210713123455|20210713130751|CepheidVM-PC^714106^626767^472753086^00500^20211226|  
R|2|^COVPLUS^SARS-CoV-2^|POS|||  
R|3|^COVPLUS^SARS-CoV-2^Ct|^30.9|||  
R|4|^COVPLUS^SARS-CoV-2^EndPt|^269.0|||  
R|5|^COVPLUS^SPC^INA|||  
R|6|^COVPLUS^SPC^Ct|^29.4|||  
R|7|^COVPLUS^SPC^EndPt|^108.0|||  
L|1|N

### 6.3.1.3 Example ASTM Message: “SARS-CoV-2: Error”

SARS-CoV-2	FLU A	FLU B	RSV
Error	N.A.	N.A.	N.A.

```

H|@|^|GXM-52657545660||GeneXpert PC^GeneXpert 6.3||||LIS||P|1394-97|20210809120239
P|1|||||^|||||||||||||||||||
O|1|14_FluA_FluB_RSV_b|||^COVFLUPLUS|R|20210713123358|||||||ORH|||||||F
R|1|^COVFLUPLUS^^SARSCOV2^Xpress SARS-CoV-2_Flu plus^1^SARS-CoV-2|^ERROR^||||F| John Doe |20210713123358|20210713124719|CepheidVM-PC^714107^607591^472753088^00500^20211226|
C|1|||Error^2008^Operation terminated^Error 2008: Syringe pressure reading of 100.0 PSI exceeds the protocol limit of 100.0 PSI^20210713124706|N
R|2|^COVFLUPLUS^^SARSCOV2^^SARS-CoV-2|^NO RESULT^|||
R|3|^COVFLUPLUS^^SARSCOV2^^SARS-CoV-2^Ct|^0.0|||
R|4|^COVFLUPLUS^^SARSCOV2^^SARS-CoV-2^EndPt|^0.0|||
R|5|^COVFLUPLUS^^SARSCOV2^^SPC^|NO RESULT^|||
R|6|^COVFLUPLUS^^SARSCOV2^^SPC^Ct|^0.0|||
R|7|^COVFLUPLUS^^SARSCOV2^^SPC^EndPt|^0.0|||
R|8|^COVFLUPLUS^^FLUA^Xpress SARS-CoV-2_Flu plus^1^Flu A|^ERROR^||||F| John Doe |20210713123358|20210713124719|CepheidVM-PC^714107^607591^472753088^00500^20211226|
C|1|||Error^2008^Operation terminated^Error 2008: Syringe pressure reading of 100.0 PSI exceeds the protocol limit of 100.0 PSI^20210713124706|N
R|9|^COVFLUPLUS^^FLUA^^Flu A 1|^NO RESULT^|||
R|10|^COVFLUPLUS^^FLUA^^Flu A 1^Ct|^0.0|||
R|11|^COVFLUPLUS^^FLUA^^Flu A 1^EndPt|^0.0|||
R|12|^COVFLUPLUS^^FLUA^^Flu A 2|^NO RESULT^|||
R|13|^COVFLUPLUS^^FLUA^^Flu A 2^Ct|^0.0|||
R|14|^COVFLUPLUS^^FLUA^^Flu A 2^EndPt|^0.0|||
R|15|^COVFLUPLUS^^FLUA^^SPC^|NO RESULT^|||
R|16|^COVFLUPLUS^^FLUA^^SPC^Ct|^0.0|||
R|17|^COVFLUPLUS^^FLUA^^SPC^EndPt|^0.0|||
R|18|^COVFLUPLUS^^FLUB^Xpress SARS-CoV-2_Flu plus^1^Flu B|^ERROR^||||F| John Doe |20210713123358|20210713124719|CepheidVM-PC^714107^607591^472753088^00500^20211226|
C|1|||Error^2008^Operation terminated^Error 2008: Syringe pressure reading of 100.0 PSI exceeds the protocol limit of 100.0 PSI^20210713124706|N
R|19|^COVFLUPLUS^^FLUB^^Flu B|^NO RESULT^|||
R|20|^COVFLUPLUS^^FLUB^^Flu B^Ct|^0.0|||
R|21|^COVFLUPLUS^^FLUB^^Flu B^EndPt|^0.0|||
R|22|^COVFLUPLUS^^FLUB^^SPC^|NO RESULT^|||
R|23|^COVFLUPLUS^^FLUB^^SPC^Ct|^0.0|||
R|24|^COVFLUPLUS^^FLUB^^SPC^EndPt|^0.0|||
L|1|N

```

### 6.3.1.4 Example ASTM Message: “SARS-CoV-2: Invalid”

SARS-CoV-2	FLU A	FLU B	RSV
Invalid	N.A.	N.A.	N.A.

```

H|@|^GXM-66263131232||GeneXpert PC^GeneXpert^6.3||||LIS||P|1394-97|20210809120237
P|1|||||^|||||||||||||||
O|1|Test-2|^^^COVFLUPLUS|R|20210804145359||||||ORH||||||F| John Doe |20210804145359|20210804153036|CepheidVM-PC^714106^711453^472753073^00500^20211226|
R|2|^COVFLUPLUS^^SARSCOV2^Xpress SARS-CoV-2_Flu plus^1^SARS-CoV-2^|INVALID^|||||F| John Doe |20210804145359|20210804153036|CepheidVM-PC^714106^711453^472753073^00500^20211226|
R|3|^COVFLUPLUS^^SARSCOV2^^SARS-CoV-2^|INVALID^|||
R|4|^COVFLUPLUS^^SARSCOV2^^SARS-CoV-2^Ct|^0.0|||
R|5|^COVFLUPLUS^^SARSCOV2^^SPC^|FAIL^|||
R|6|^COVFLUPLUS^^SARSCOV2^^SPC^Ct|^0.0|||
R|7|^COVFLUPLUS^^SARSCOV2^^SPC^EndPt|^0.0|||
R|8|^COVFLUPLUS^^FLUA^Xpress SARS-CoV-2_Flu plus^1^Flu A^|INVALID^|||||F| John Doe |20210804145359|20210804153036|CepheidVM-PC^714106^711453^472753073^00500^20211226|
R|9|^COVFLUPLUS^^FLUA^^Flu A 1^|INVALID^|||
R|10|^COVFLUPLUS^^FLUA^^Flu A 1^Ct|^0.0|||
R|11|^COVFLUPLUS^^FLUA^^Flu A 1^EndPt|^2.0|||
R|12|^COVFLUPLUS^^FLUA^^Flu A 2^|INVALID^|||
R|13|^COVFLUPLUS^^FLUA^^Flu A 2^Ct|^0.0|||
R|14|^COVFLUPLUS^^FLUA^^Flu A 2^EndPt|^1.0|||
R|15|^COVFLUPLUS^^FLUA^^SPC^|FAIL^|||
R|16|^COVFLUPLUS^^FLUA^^SPC^Ct|^0.0|||
R|17|^COVFLUPLUS^^FLUA^^SPC^EndPt|^0.0|||
R|18|^COVFLUPLUS^^FLUB^Xpress SARS-CoV-2_Flu plus^1^Flu B^|INVALID^|||||F| John Doe |20210804145359|20210804153036|CepheidVM-PC^714106^711453^472753073^00500^20211226|
R|19|^COVFLUPLUS^^FLUB^^Flu B^|INVALID^|||
R|20|^COVFLUPLUS^^FLUB^^Flu B^Ct|^0.0|||
R|21|^COVFLUPLUS^^FLUB^^Flu B^EndPt|^2.0|||
R|22|^COVFLUPLUS^^FLUB^^SPC^|FAIL^|||
R|23|^COVFLUPLUS^^FLUB^^SPC^Ct|^0.0|||
R|24|^COVFLUPLUS^^FLUB^^SPC^EndPt|^0.0|||
L|1|N

```

### 6.3.2 Example HL7 Messages

#### 6.3.2.1 Example HL7 Message: "SARS-CoV-2: Negative, FLU A: N.A., FLU B: N.A., RSV: N.A."

SARS-CoV-2	FLU A	FLU B	RSV
Negative	N.A.	N.A.	N.A.

```
MSH|^~\&|GeneXpert PC^GeneXpert^6.3||LIS||20210809115429||ORU^R32^ORU_R30|GXM-37356666355|P|2.5|||||||  
PID|1|||||^|^^^|||||^|  
ORC|RE|1|||||20210713123814  
OBR|1|||COVPLUS||||||||||||F  
TQ1|||||20210713123814|20210713131445|R  
OBX|1|ST|&COVPLUS&Xpress SARS-CoV-2 plus&1|&|NEGATIVE^|||||F||||^ John Doe |||20211226~00500~472753101~687904~723206~CepheidVM-PC  
OBX|2|ST|&COVPLUS&&|SARS-CoV-2&|NEG^|||  
OBX|3|ST|&COVPLUS&&|SARS-CoV-2&Ct|0.0|||  
OBX|4|ST|&COVPLUS&&|SARS-CoV-2&EndPt|~1.0|||  
OBX|5|ST|&COVPLUS&&|SPC&|PASS^|||  
OBX|6|ST|&COVPLUS&&|SPC&Ct|~29.2|||  
OBX|7|ST|&COVPLUS&&|SPC&EndPt|~156.0|||  
SPM|1|10_FluB_RSV_a^||ORH|||||P
```

## 6.3.2.2 Example HL7 Message: "SARS-CoV-2: Positive, FLU A: N.A., FLU B: N.A., RSV: N.A."

SARS-CoV-2	FLU A	FLU B	RSV
Positive	N.A.	N.A.	N.A.

MSH|^~\&|GeneXpert PC^GeneXpert^6.3||LIS||20210809115430||ORU^R32^ORU\_R30|GXM-80160114843|P|2.5|||||||  
PID|1||||^|||^||||^|||||||  
ORC|RE|1|||||20210713123455  
OBR|1|||COVPLUS||||||||||||F  
TQ1|||||20210713123455|20210713130751|R  
OBX|1|ST|&COVPLUS&Xpress SARS-CoV-2 plus&1|&|POSITIVE^|||||F|||||^ John Doe ||20211226~00500~472753086~626767~714106~CepheidVM-PC  
OBX|2|ST|&COVPLUS&&|SARS-CoV-2&|POS^||  
OBX|3|ST|&COVPLUS&&|SARS-CoV-2&|C|^30.9||  
OBX|4|ST|&COVPLUS&&|SARS-CoV-2&EndPt|^269.0||  
OBX|5|ST|&COVPLUS&&|SPC&|NA^||  
OBX|6|ST|&COVPLUS&&|SPC&C|^29.4||  
OBX|7|ST|&COVPLUS&&|SPC&EndPt|^108.0||  
SPM|1|15\_CoV2\_FluA\_FluB\_RSV\_a^||ORH|||||||P

### 6.3.2.3 Example HL7 Message: “SARS-CoV-2: Error”

SARS-CoV-2	FLU A	FLU B	RSV
Error	N.A.	N.A.	N.A.

```

MSH|^~\&|GeneXpert PC^GeneXpert^6.3||LIS||20210809115941||ORU^R32^ORU_R30|GXM-70488807826|P|2.5|||||||
PID|1|||||^|||||^|||||^|||||||
ORC|RE|1|||||20210713123358
OBR|1|||COVFLUPLUS||||||||||||F
TQ1|||||20210713123358|20210713124719|R
OBX|1|ST|COVFLUPLUS&SARSCOV2&Xpress SARS-CoV-2_Flu plus&1|SARS-CoV-2&|ERROR|^|||||F|||||^ John Doe ||20211226~00500~472753088~607591~714107~CepheidVM-PC
NTE|1|L|Error^2008^Operation terminated^Error 2008: Syringe pressure reading of 100.0 PSI exceeds the protocol limit of 100.0 PSI^20210713124706
OBX|2|ST|COVFLUPLUS&SARSCOV2&&|SARS-CoV-2&|NO RESULT^||
OBX|3|ST|COVFLUPLUS&SARSCOV2&&|SARS-CoV-2&Ct|^0.0||
OBX|4|ST|COVFLUPLUS&SARSCOV2&&|SARS-CoV-2&EndPt|^0.0||
OBX|5|ST|COVFLUPLUS&SARSCOV2&&|SPC&|NO RESULT^||
OBX|6|ST|COVFLUPLUS&SARSCOV2&&|SPC&Ct|^0.0||
OBX|7|ST|COVFLUPLUS&SARSCOV2&&|SPC&EndPt|^0.0||
OBX|8|ST|COVFLUPLUS&FLUA&Xpress SARS-CoV-2_Flu plus&1|Flu A&|ERROR|^|||||F|||||^ John Doe ||20211226~00500~472753088~607591~714107~CepheidVM-PC
NTE|1|L|Error^2008^Operation terminated^Error 2008: Syringe pressure reading of 100.0 PSI exceeds the protocol limit of 100.0 PSI^20210713124706
OBX|9|ST|COVFLUPLUS&FLUA&&|Flu A 1&|NO RESULT^||
OBX|10|ST|COVFLUPLUS&FLUA&&|Flu A 1&Ct|^0.0||
OBX|11|ST|COVFLUPLUS&FLUA&&|Flu A 1&EndPt|^0.0||
OBX|12|ST|COVFLUPLUS&FLUA&&|Flu A 28|NO RESULT^||
OBX|13|ST|COVFLUPLUS&FLUA&&|Flu A 2&Ct|^0.0||
OBX|14|ST|COVFLUPLUS&FLUA&&|Flu A 2&EndPt|^0.0||
OBX|15|ST|COVFLUPLUS&FLUA&&|SPC&|NO RESULT^||
OBX|16|ST|COVFLUPLUS&FLUA&&|SPC&Ct|^0.0||
OBX|17|ST|COVFLUPLUS&FLUA&&|SPC&EndPt|^0.0||
OBX|18|ST|COVFLUPLUS&FLUB&Xpress SARS-CoV-2_Flu plus&1|Flu B&|ERROR|^|||||F|||||^ John Doe ||20211226~00500~472753088~607591~714107~CepheidVM-PC
NTE|1|L|Error^2008^Operation terminated^Error 2008: Syringe pressure reading of 100.0 PSI exceeds the protocol limit of 100.0 PSI^20210713124706
OBX|19|ST|COVFLUPLUS&FLUB&&|Flu B&|NO RESULT^||
OBX|20|ST|COVFLUPLUS&FLUB&&|Flu B&Ct|^0.0||
OBX|21|ST|COVFLUPLUS&FLUB&&|Flu B&EndPt|^0.0||
OBX|22|ST|COVFLUPLUS&FLUB&&|SPC&|NO RESULT^||
OBX|23|ST|COVFLUPLUS&FLUB&&|SPC&Ct|^0.0||
OBX|24|ST|COVFLUPLUS&FLUB&&|SPC&EndPt|^0.0||
SPM|1|14_FluA_FluB_RSV_b^||ORH||||||P

```

### 6.3.2.4 Example HL7 Message: “SARS-CoV-2: Invalid”

SARS-CoV-2	FLU A	FLU B	RSV
Invalid	N.A.	N.A.	N.A.

```

MSH|^~\&|GeneXpert PC^GeneXpert^6.3||LIS||20210809115938||ORU^R32^ORU_R30|GXM-05115888235|P|2.5|||||||
PID|1|||||^|||||^|||||^|||||||
ORC|RE|1|||||20210804145359
OBR|1|||COVFLUPLUS|||||||||||F
TQ1|||||20210804145359|20210804153036|R
OBX|1|ST|COVFLUPLUS&SARSCOV2&|xpress SARS-CoV-2_Flu plus&1|SARS-CoV-2&|INVALID^|||||F|||||^ John Doe |||20211226~00500~472753073~711453~714106~CepheidVM-PC
OBX|2|ST|COVFLUPLUS&SARSCOV2&&|SARS-CoV-2&|INVALID^|||
OBX|3|ST|COVFLUPLUS&SARSCOV2&&|SARS-CoV-2&|C|^\0.0|||
OBX|4|ST|COVFLUPLUS&SARSCOV2&&|SARS-CoV-2&EndPt|^1.0|||
OBX|5|ST|COVFLUPLUS&SARSCOV2&&|SPC&|FAIL^|||
OBX|6|ST|COVFLUPLUS&SARSCOV2&&|SPC&|C|^\0.0|||
OBX|7|ST|COVFLUPLUS&SARSCOV2&&|SPC&EndPt|^0.0|||
OBX|8|ST|COVFLUPLUS&FLUA&xpress SARS-CoV-2_Flu plus&1|Flu A&|INVALID^|||||F|||||^ John Doe |||20211226~00500~472753073~711453~714106~CepheidVM-PC
OBX|9|ST|COVFLUPLUS&FLUA&&|Flu A 1&|INVALID^|||
OBX|10|ST|COVFLUPLUS&FLUA&&|Flu A 1&Ct|^0.0|||
OBX|11|ST|COVFLUPLUS&FLUA&&|Flu A 1&EndPt|^2.0|||
OBX|12|ST|COVFLUPLUS&FLUA&&|Flu A 2&|INVALID^|||
OBX|13|ST|COVFLUPLUS&FLUA&&|Flu A 2&Ct|^0.0|||
OBX|14|ST|COVFLUPLUS&FLUA&&|Flu A 2&EndPt|^1.0|||
OBX|15|ST|COVFLUPLUS&FLUA&&|SPC&|FAIL^|||
OBX|16|ST|COVFLUPLUS&FLUA&&|SPC&|C|^\0.0|||
OBX|17|ST|COVFLUPLUS&FLUA&&|SPC&EndPt|^0.0|||
OBX|18|ST|COVFLUPLUS&FLUB&xpress SARS-CoV-2_Flu plus&1|Flu B&|INVALID^|||||F|||||^ John Doe |||20211226~00500~472753073~711453~714106~CepheidVM-PC
OBX|19|ST|COVFLUPLUS&FLUB&&|Flu B&|INVALID^|||
OBX|20|ST|COVFLUPLUS&FLUB&&|Flu B&Ct|^0.0|||
OBX|21|ST|COVFLUPLUS&FLUB&&|Flu B&EndPt|^2.0|||
OBX|22|ST|COVFLUPLUS&FLUB&&|SPC&|FAIL^|||
OBX|23|ST|COVFLUPLUS&FLUB&&|SPC&|C|^\0.0|||
OBX|24|ST|COVFLUPLUS&FLUB&&|SPC&EndPt|^0.0|||
SPM|1|Test-2^|ORH||||||P

```

## 7 Observation Language Translations Table

The table below provides a consolidated translation of the analyte value strings for all the languages supported by the GeneXpert System.

#	Language	Positive	Negative	Error	Invalid	No Result
1	English	POSITIVE	NEGATIVE	ERROR	INVALID	NO RESULT
2	French	POSITIF	NÉGATIF	ERREUR	NON VALIDE	PAS DE RÉSULTAT
3	German	POSITIV	NEGATIV	FEHLER	UNGÜLTIG	KEIN ERGEBNIS
4	Spanish	POSITIVO	NEGATIVO	INCERTO	INDETERMINADA	SIN RESULTADO
5	Italian	POSITIVO	NEGATIVO	ERRORE	ERRO	NESSUN RISULTATO
6	Portuguese	POSITIVO	NEGATIVO	NON VALIDO	INVÁLIDO	SEM RESULTADO
7	Russian	ПОЛОЖИТЕЛЬНЫЙ	ОТРИЦАТЕЛЬНЫЙ	ОШИБКА	НЕДЕЙСТВИТЕЛЬНЫЙ	НЕТ РЕЗУЛЬТАТА
8	Ukrainian	ВИЯВЛЕНО	НЕ ВИЯВЛЕНО	НЕДІЙСНИЙ	НЕДІЙСНИЙ	НЕМАЄ РЕЗУЛЬТАТУ
9	Japanese	POSITIVE	NEGATIVE	ERROR	INVALID	NO RESULT