visby medical™

Training:
Visby Medical
Respiratory
Health Test



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Product Overview

The Visby Respiratory Health Test

1. No Call Backs

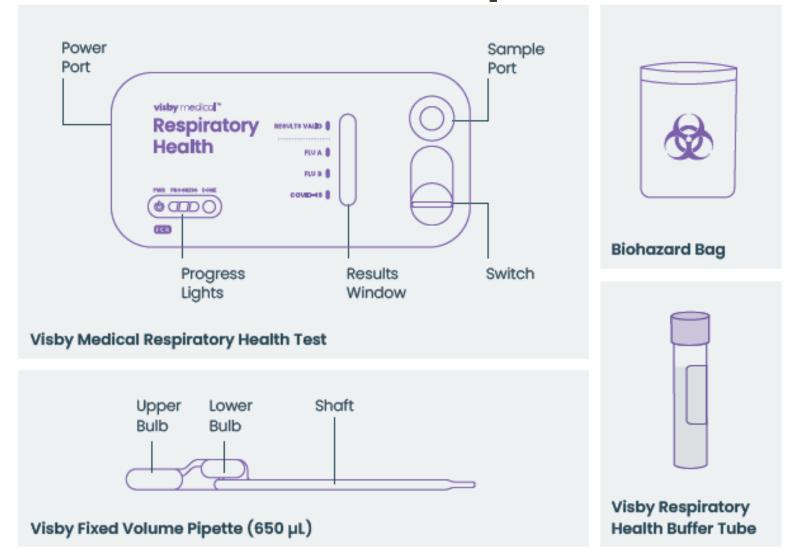
2. Informed Treatment

3. Reduce Patient Anxiety





Materials Provided and Required

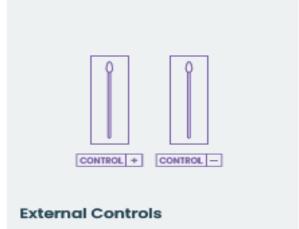




Other Required Materials

Available as Accessories





Not Provided





Storage & Operating Conditions

Sample Storage Conditions

Collected Sample in Visby Buffer



2 hours at Room Temperature

59°F - 86°F (15°C - 30°C)

or

48 hours at

Refrigerated Temperature

36°F - 46°F

 $(2^{\circ}C - 8^{\circ}C)$

DO NOT FREEZE

To increase sample stability time: collect sample into the dry tube first, then transfer to Visby Buffer.



Up to 1 hour at

Room Temperature

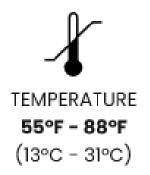
59°F - 86°F

 $(15^{\circ}C - 30^{\circ}C)$



Operating Conditions







- Run on a clean, level surface
- Do not move the test once it is loaded or plugged in



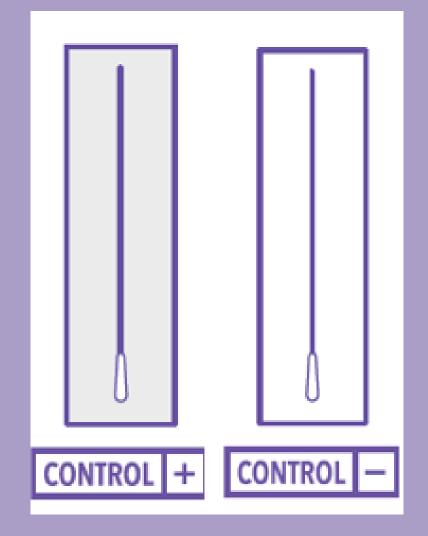
External Control Testing

Required External Control Testing

Test external controls with

- Each new shipment received
- Each untrained operator

Further controls may be tested in order to conform with local, state and/or federal regulations, accrediting groups, or your lab's standard Quality Control procedures.



Positive and Negative External Control Swabs (PS-400381)



How the Device Works

Easy to Use



1

Plug in Device



2

Load Sample



3

Slide Port Closed

Load Sample

Sample rehydrates lyophilized RT Reagents

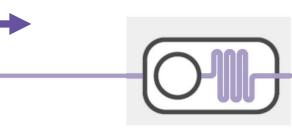
Sample preparation

- a. Lysis of Flu A, Flu B, SARS-CoV-2
- b. Reverse Transcription: RNA converted to DNA

Mixing chamber

Sample mixes with lyophilized PCR reagents

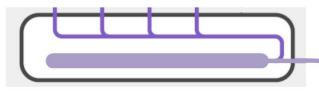






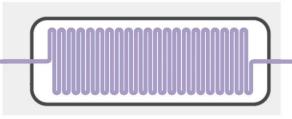
Detection

- a. Amplicon binds to specific capture probes on the channel
- b. Enzyme/substrate reaction results in purple spot development



PCR

Sample goes through 40 cycles of PCR

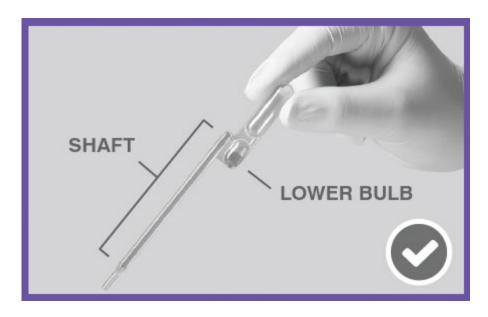




Using the Pipette

Using the Pipette





- Avoid bubbles
- Pipette is full
- Fluid in the lower bulb

Tip: Pause and visually verify correct usage prior to loading the test



Testing with the Visby Device

Setup: Prepare the Workspace

Operating Temperature: 55°F (13°C) - 88°F (31°C)



Clean your workspace and gather all the required materials, then unwrap the device.

Wear gloves while handling samples and change gloves between testing each specimen.

\(\triangle \) Use the device immediately after unwrapping to ensure accurate results.



Plug the Visby Power Adaptor into the device power port. Note: If the power light blinks, refer to the Troubleshooting Section.



Remove the sticker over the sample port.

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Step 1: Add Patient Swab to Visby Respiratory Health Buffer Tube



Open the Visby Respiratory Health Buffer Tube and **place it** in tube holder.



Take the patient swab.



Place the patient swab into Visby Respiratory Health Buffer Tube. Note: Break the handle of the swab.



With the swab in the tube, screw cap back onto the Visby Respiratory Health Buffer Tube. Label the tube. **Note the time.**

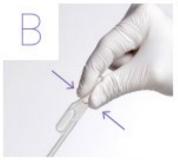
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Step 2: Mix and Add Patient Sample



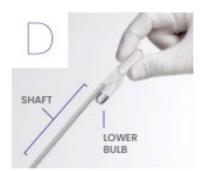
Mix the sample by **gently** inverting the tube **5 times**. Note: Failure to invert may lead to inaccurate results.



Squeeze the **upper bulb** of the provided pipette and submerge the tip to the **bottom** of the sample tube.



Release the upper bulb slowly to fill the shaft. Keep pipette tip submerged until shaft is full. Extra fluid should enter the lower bulb.



Ensure the **shaft** is filled with liquid sample. **Note:**Do not squeeze lower bulb or invert the pipette.



Place the tip at the **bottom** of the sample port and then squeeze the **upper bulb** of the pipette to release **all** of the sample.



Some fluid will remain in the lower bulb. Discard the pipette according to your institution's guidelines immediately.

Do not set down.

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Step 3: Run the Test

while running.

♠ Do not move test ∧ Run the test immediately after adding patient sample.



Slide the switch upwards in a firm, swift motion to close the sample port to start the test. Do not move test while running. Note: Make sure the switch is pushed all the way up.



The second progress indicator light should become stable within 20 minutes.



Check that the first progress indicator light is blinking. Lights will initially blink and then become stable as the test progresses. Note: If something different happens to the lights, please refer to the Troubleshooting Section.



Wait approximately 30 minutes for a green light to appear indicating the test is finished running.

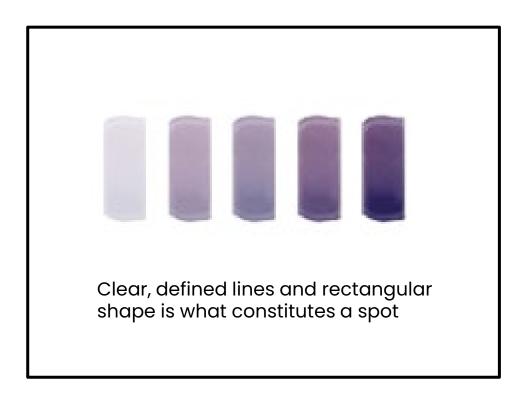


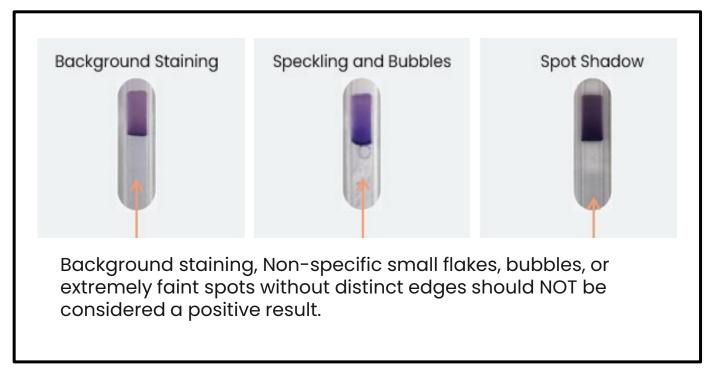
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Interpreting Results

Variance in Spot Color

The color may range in different intensities and shades of blue, maroon or purple.



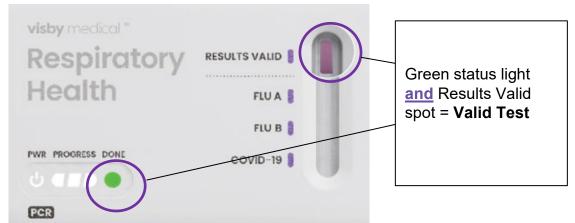


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Step 3: Interpret Results

After 28 Minutes

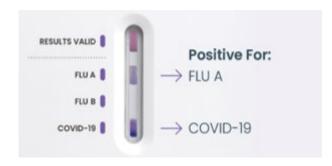


Negative Result



Negative: No spot next to the target is a negative result.

Positive Result



Positive: Any shade of purple with distinct edges next to the target is a positive result.

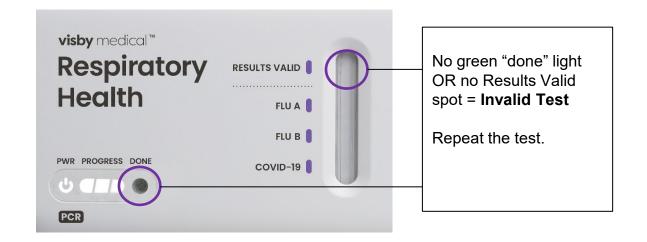
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Interpret the results for up to 2 hours



Step 3: Interpret Results

Invalid Results









Results Interpretation

1



2



- +
 □ □ Flu A
 □ □ Flu B
 □ □ Covid-19
 ☑ Invalid
- + □ ⊠Flu A □ Flu B □ ⊠ Covid-19 □ Invalid

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Causes of Invalid Results

Electronic Control

If the power light is blinking: Wait until the power light is stable before loading the sample

Device operated outside of the temperature conditions



If the power light and progress lights are blinking together: Retest with another device

Interrupted power to the device





Common Causes of No Results Valid Spot

1) Improper Sample Handling

- Clinical samples can contain inhibitors that may generate invalid results
- Sample was collected in anything other than the Visby Buffer Collection Tube
 - i.e., Other collection kits, water, or other buffers
- Incorrect sample volume was loaded into the test

2) Improper Use of the Visby Test

- Improper storage of the Visby Test or Visby Collection Kits
- Use of expired Visby Devices or Visby Collection Kits



Invalid Retesting

Invalid Patient Sample:

Return to the patient sample and repeat using a new pipette and new Visby Medical Respiratory Health Test. Keep the invalid device in a provided biohazard bag in case Customer Support wants the device back for further investigation.

If sample storage conditions are exceeded, obtain a new sample.



Troubleshooting Tracker

Device Name

For help, contact Visby Medical Customer Support at 1-833-GoVisby (1-833-468-4729), fax: 408-608-2374 or email support@visby.com.

Date, Time	Operator	Device Lot	Invalid Type	Issue
			No Results Valid No Green Done Light Other	
			No Results Valid No Green Done Light Other	
			No Results Valid No Green Done Light Other	
			No Results Valid No Green Done Light Other	
			No Results Valid No Green Done Light Other	
			No Results Valid No Green Done Light Other	
			No Results Valid No Green Done Light Other	
			No Results Valid No Green Done Light Other	
			No Results Valid No Green Done Light Other	
			No Results Valid No Green Done Light Other	

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Resources

Training Resources

The Visby Implementation Binder



Access Training Resources

www.visbymedical.com/visby-university

Password: Visby-POC

- ☐ Training presentation
- Implementation binder
- ☐ Virtual training quiz
- Demo video



Questions?



Hours: Mon-Fri 8:00am – 4:00pm PST

Call Us: 1-833-GoVisby

(1-833-468-4729)

Email Us: support@visby.com

Visby Medical training@visby.com



Appendix

Clinical and Analytical Performance

Pathogen	PPA*	NPA*
Flu A	96.8 %	99.0%
Flu B	96.9%	100%
Covid-19	96.1%	98.2%

Virus	LoD Concentration	
Influenza A/H1N1 2009, Brisbane/02/18	106 copies/swab	
Influenza A/H3N2, Kansas/14/2017	125 copies/swab	
Influenza B/Washington/02/19	728 copies/swab	
Influenza B/Oklahoma/10/2018	778 copies/swab	
SARS-CoV-2 (USA-WA1/2020)	100 copies/swab	

^{*}Data is a combination of prospective fresh specimens (NP and AN), banked specimens (NP), and surrogate specimens (NP). For more information on the clinical and analytical performance of the Visby Respiratory Health Test, please refer to the Instructions for Use.



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Part Numbers

10 Pack (1 Box)	10 Devices 12 Pipettes 12 Visby Respiratory Health Buffer Tubes 12 Biohazard bags 1 Quick Reference Guide 1 Instructions for Use (available digitally)	PS-400380 (2 x 10 Packs)
Required	Visby Power Adapter	PS-000288
Accessories	External Control Swabs (1 kit= 2 Pos / 2 Neg)	PS-400381





