



⌚ transmissive blood test

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¹Tellspec LTD

Sep 08, 2020

1 Works for me

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40751

EQUIPMENT

NAME	CATALOG #	VENDOR
MediPurpose SurgiLance	SLN300	AOSS Medical Supply
demountable cuvette	Type 19	
A20 cuvette mount	A20 Series	
Preemie Sensor	Preemie Sensor	

- 1 Launch COVIDTell app on mobile device at start of day.

5s

- 2 Collect blood with finger prick. 30 μl 2 drops

30s

Room temperature

MediPurpose SurgiLance
disposable blood lancet

MediPurpose SLN300
minimum 30 uL blood draw

- 3 Place blood in cuvette well, either directly or from a micro pipette. This image shows the same protocol being followed using human milk. ^{15s}



demountable cuvette

NIR quartz

FireflySci

Type 19

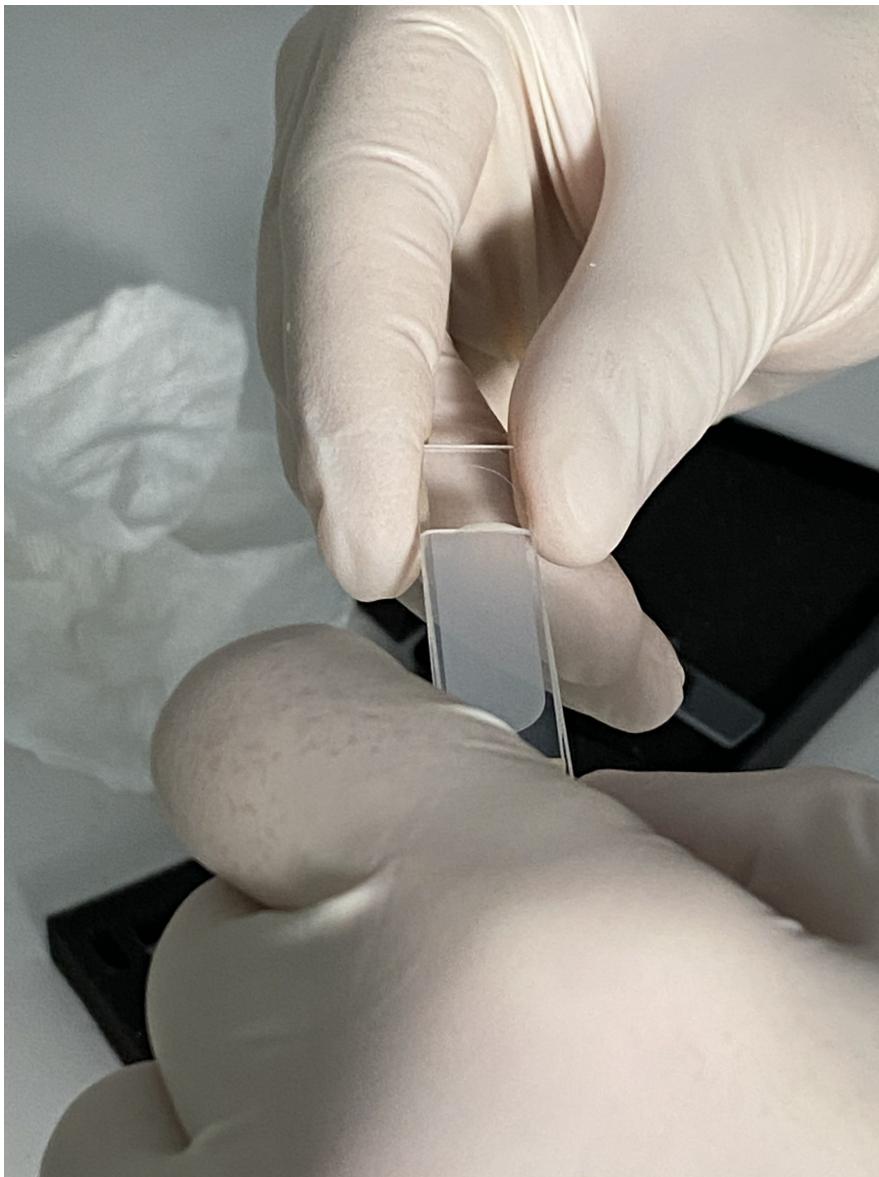


0.1 mm path length.

NIR-transmissive, at least 1350 nm to 2150 nm.

- 4 Slide cuvette window over well. This image shows the same protocol being followed using human milk.

5s



- 5 Place cuvette in mount. This image shows the same protocol being followed using human milk.

5s



A20 cuvette mount

cuvette mount

FireflySci

A20 Series



extended spring

- 6 Place mount in sensor. This is the Preemie-branded sensor. The COVIDTell sensor will be the same spectrometer with^{5s} different branding and housing.



this is the right way to insert the holder in the sensor



Preemie Sensor

handheld spectrometer

Preemie Preemie Sensor

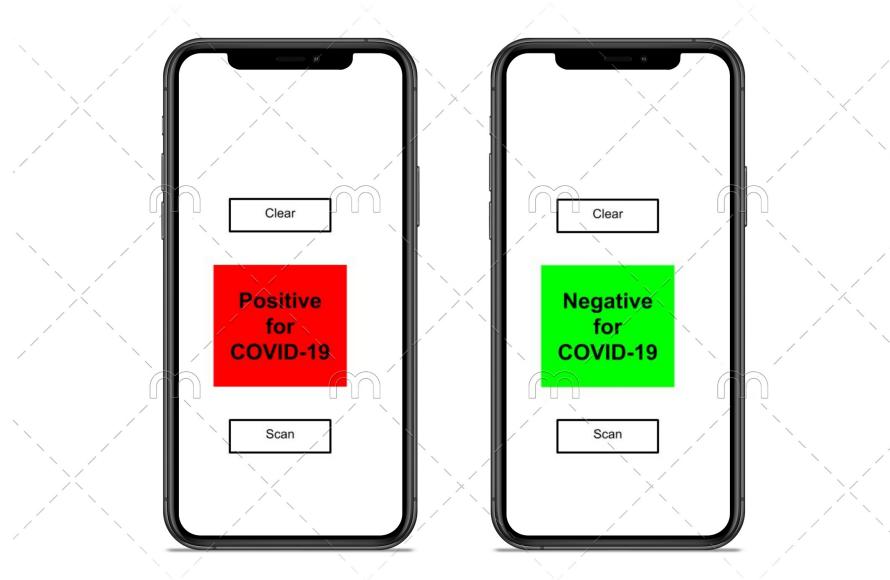
NIR transmissive spectrometer, 1350 nm
to 2150 nm.

- 7 Perform scan by pressing button on sensor or tapping button in app. 10s

- 8 Read results on app screen. 30s



Positive or Negative, or Failed.



Mockup of COVID-19 smartphone app.

- 9 Clear result in app before next subject arrives. 1s
- 10 Clean cuvette with 50% alcohol. This might be done by a second person. [go to step #2](#) 1m