transmissive blood test

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Tellispec LTD

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XPRIZE Rapid Covid Testing

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

2 Collect blood with finger prick. 30 µl 2 drops

  Room temperature

MediPurpose SurgiLance disposable blood lancet
MediPurpose SLN300 minimum 30 µL 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.

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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.
Place cuvette in mount. This image shows the same protocol being followed using human milk.
when sliding the cuvette into the mount, ensure the UV inscription is on the upper part.

6 Place mount in sensor. This is the Preemie-branded sensor. The COVIDTell sensor will be the same spectrometer with different branding and housing.
Preemie Sensor
handheld spectrometer

Preemie Sensor
NIR transmissive spectrometer, 1350 nm to 2150 nm.

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

8 Read results on app screen.  

Positive or Negative, or Failed.
9 Clear result in app before next subject arrives.

10 Clean cuvette with 50% alcohol. This might be done by a second person. go to step #2