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# LDT Validation Summary

**Valencia Branch Laboratory**  
**24 MAY 2021**

Regulations

# 01 Analytic Performance Specifications

## Federal Regulations 42 CFR 493.1253 Standard: Establishment and verification of performance specifications

- Performance characteristics performed through EUA and LDT Validation

### (i) Accuracy

Performed as a part of the LDT validation

### (ii) Precision

Performed as a part of the LDT validation

### (iii) Analytical sensitivity

Performed as part of the LDT validation

### (iv) Analytical specificity to include interfering substances

Performed as a part of the EUA submission (Right to Reference)

### (v) Reportable range of test results for the test system

Not applicable to this assay, qualitative test

### (vi) Reference intervals (normal value)

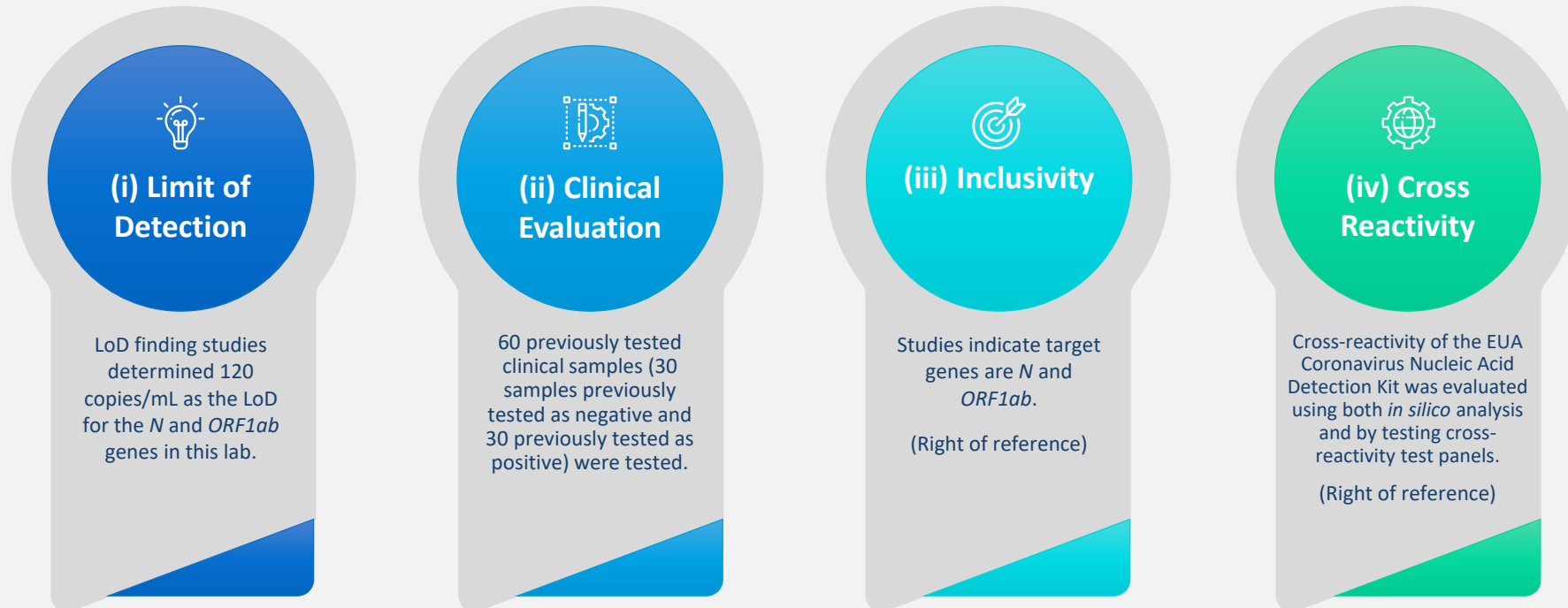
Not applicable to this assay, qualitative test

### (vii) Any other performance characteristic required for test performance

Bridging studies with MTM and VTM were performed

# FDA Guidelines for Validation

## Coronavirus EUA LDTs



- CDPH guidelines lead to LDT validation
- Validation Report provides objective evidence that the assay is validated

# EUA Verification to LDT Validation

## Dilution

There was no change in dilutions.

## AJ Thermocycler

AJ Thermocycler – authorized for use after original validation performed

## Heat Inactivation

A heat inactivation process (70°C for 45 min) was added and validated to accommodate for future changes in transport media.



## Reagent Changes

There were no reagent (chemistry) changes.

## Equipment

No changes to extraction equipment.

## Media

The media noted in the IFU is VTM. Bridge study demonstrated that performance equivalent when using MTM.

# Verification & Requirements

Lab Director, CDPH Lab Directors, and CA-LFS determined necessary requirements

01

## Data

Fulfillment of the requirements for laboratory licensure.

02

## Ct Values

PKI scientific team made changes to positivity rate classification as per CDPH's directions.

03

## RT-PCR

Analytik Jena qTower<sup>3</sup>84G Real-Time PCR systems added to EUA by FDA .

04

## Comparative Assay

Samples used in comparative assay tested for accuracy and precision for validation of EUA Coronavirus Kit.

05

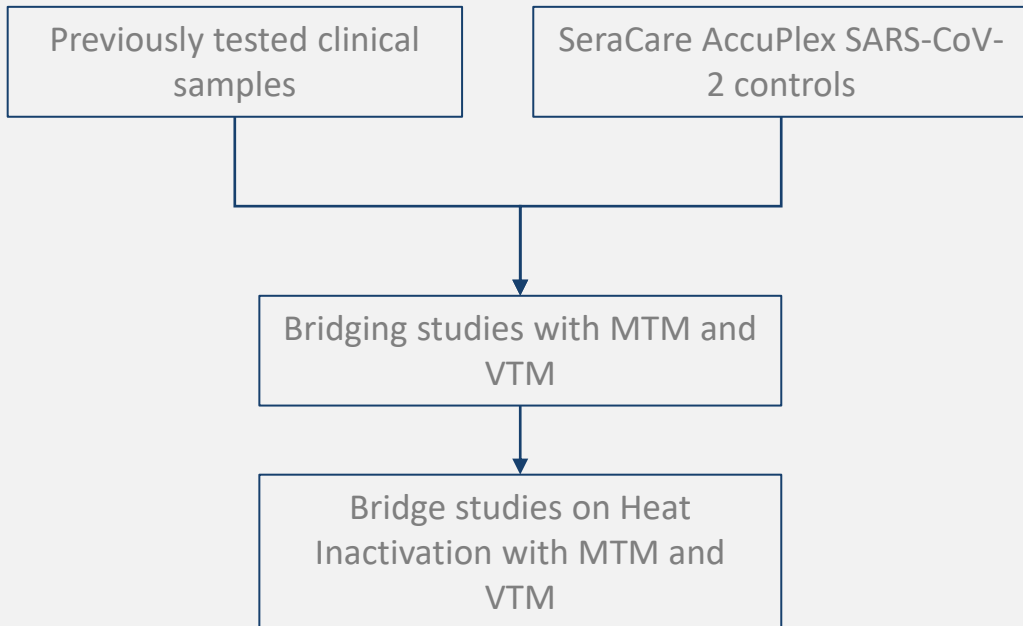
## Emergency Procurement

CHHS and CDPH determined type of collection kits, media, sample tubes based on Emergency Procurement supply chain availability, sample stability, and cost.

Federal Regulations 42 CFR 493.1253

# MTM Qualification Heat Inactivation

## Contrived and Clinical Samples



**CDPH** California Department of Public Health  
**Validation Report for SARS-CoV-2 PriSt MTM**

CA-VALRPT-LAB-003  
Version number 2.2

**CA-VALRPT-LAB-003 Validation Report for SARS-CoV-2 PriSt MTM**  
Copy of version 2.2 (approved and current)

<b>Last Approval or Periodic Review Completed</b>	2/19/2021	<b>Uncontrolled Copy</b> printed on 3/18/2021 11:59 AM
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**Comments for version 2.0 (last major revision)**  
Added Section 2.3

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**CALIFORNIA DEPARTMENT OF PUBLIC HEALTH (CDPH)  
VALENCIA BRANCH LABORATORY (VBL)  
LABORATORY DEVELOPED TEST (LDT) for SARS-CoV2 VALIDATION REPORT**

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**Due to the FDA Guidelines for Covid-19 Pandemic, CDPH VBL is following these requirements by the FDA for EUA LDT**

**EMERGENCY USE AUTHORIZATION (EUA)**

**Validation Summary**

## Summary of Validation

### Assay used in CDPH Valencia Branch Laboratory is a validated LDT

Performance of this LDT assay has been validated by establishing performance characteristics per 42 CFR Part 493, and by following FDA guidelines for validation of Coronavirus LDTs.