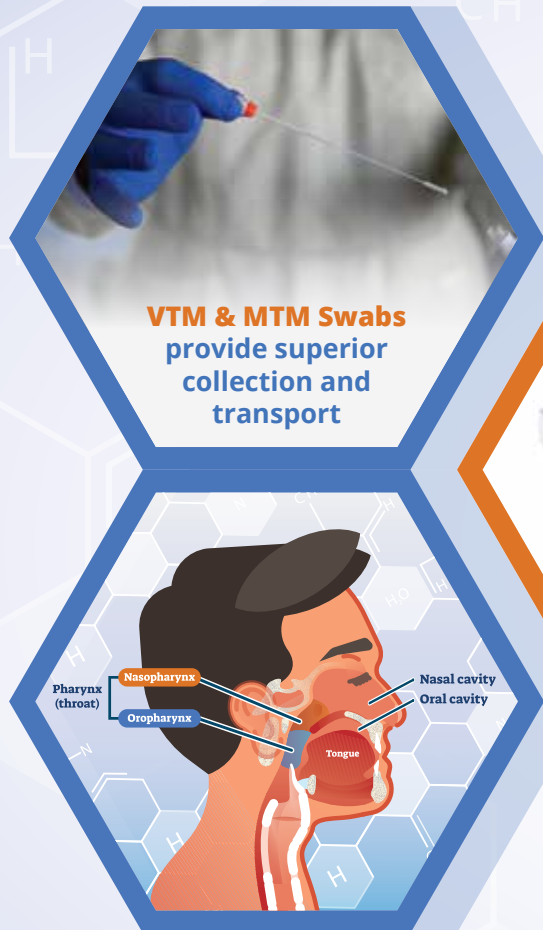


1 SPECIMEN COLLECTION



2 RNA EXTRACTION



3 PCR TESTING PROCESS



4 DETECTION AND RESULTS



Swab Collection Methods

- Nasopharyngeal** – slides very far to the back of your nasal/throat passage
- Oropharyngeal** – swabs the tonsil region of your mouth
- Nasal** – extended swabbing at the entrance of your nose
- Mid-Tubinate** – stops at nostril depth, deeper than a nasal swab

RNA Extraction Methods

- Manual Extraction** - Testing between 1-24 specimens using the **SIGMA 4-16S CENTRIFUGE**
- Automatic Extraction** - Testing up to 96 specimens with the **KINGFISHER™ DUO PRIME PURIFICATION SYSTEM**
- New High Through Put Extraction** - Testing between 192 Specimens with the **SIGMA 4-16S CENTRIFUGE**

PCR Testing Process

- Extraction includes thermo-cycling by heating the specimen to **95°C**, then cooling to **60°C** and repeat for **40 cycles**.
- Our process takes just **45 minutes to an hour**, while others can take up to 3 hours or even longer to complete.

Types of Detection Methods

- RT-Q PR method** - Judges a positive or negative CT value to identify the presence of viral RNA which indicates an active SARS-CoV-2 infection.
- RT Lamp method** - Uses a microplate reader to show different colors of the specimens to detect results.