



**printerprezz**

PrinterPrezz is an ISO 13485:2016 Certified Facility

# FORMLABS TEST SWABS

3D PRINTED BY PRINTERPREZZ

IN PARTNERSHIP WITH:



DESIGNED AND PATENTED BY:



USF Health

PrinterPrezz is a 3D printing medical company offering design, prototyping, mass production and regulation assistance to orthopedic device companies. We help customers at every stage of the innovation life cycle, and specialize in titanium and other medical materials. During this time, we are keeping our facilities open to create test swabs to aid the medical community in fighting this pandemic.

## What are NP Test Swabs?

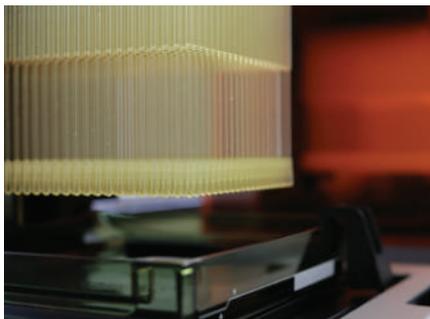
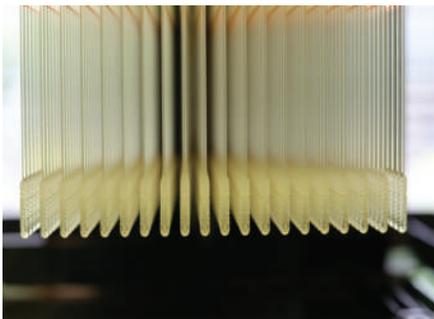
Nasopharyngeal (NP) swabs are flexible sticks with a bristled end that are inserted into the nose to the back of the nasal cavity and swept around to collect material that sticks to, or wicks up, the bristles. The swab is then placed into a vial that contains a culture, medium swab sticks have an intentionally weak point 7-8 cm from the bristled tip, which allows the stick to be broken to the correct length so that the vial can be capped before its is transported to a lab for testing.



perform equally to standard swabs used for testing for COVID-19.

## Are the swabs FDA approved?

The FDA has designated the swabs as a Class 1 exempt Medical Device exempted from premarket notification requirements but require manufacturers to register and list their products, IRB approved clinical trial has also been completed. PrinterPrezz has a production license for these unsterilized swabs and is producing them in our FDA registered, ISO 13485:2016 certified facility in Fremont, CA.



## Swab Design

A team from the USF Health's 3D Clinical Applications Division created an initial test swab design, working with Northwell Health, and collaborating with Formlabs, a 3D printing company. The swabs were tested by clinicians at Northwell Health, USF Health for patient safety and comfort.

## Validation Status

Key milestones in testing the swabs were conducted by USF Health faculty researchers in the Departments of Radiology and Infectious Diseases in collaboration with Northwell Health, including validation testing (24-hour, 3-day and leeching), and rapid clinical testing at Northwell Health. All testing showed that the 3D printed nasal swabs