

# Nasopharyngeal (NP) Swabs for COVID-19 Testing

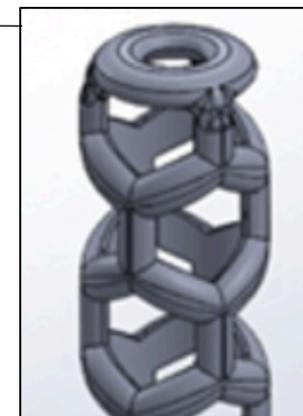
Developed, manufactured and distributed by  
**EnvisionTEC** - brought to you by Accumen

FDA Registered

**envisionTEC**



Fully Body



Head Design



## HOW TO ORDER

Eric Jurinic

312-848-5453 | [ejurinic@accumen.com](mailto:ejurinic@accumen.com)

Website

<https://www.Accumen.com/covid-19-nasal-swab>



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**Accumen has partnered with EnvisionTEC to provide access to 3D printed flexible nasal swabs in response to the COVID-19 testing supply crisis.** The partnership allows Accumen to serve as a channel partner, bringing hospital and health system swab orders to EnvisionTEC who in turn manufactures, packages and ships the swabs directly to the hospital.

*Analytical results were positive\*, with a high level of concordance with the reference swab and with subjective results showing that [EnvisionTEC's] swab performed neutrally or better than other test swabs . . . the EnvisionTEC swabs (also) received positive comments from study staff for comfort, flexibility, and ease of insertion.*

Dr. Ramy Arnaout  
Assoc. Dir., Clinical Microbiology Laboratories  
Beth Israel Deaconess Medical Center

**View Results**

### Who is Accumen?

Accumen is a healthcare performance partner, working side-by-side with more than 400 hospitals to accelerate their journey to excellence, creating extraordinary quality and process improvements across the hospital lab, imaging department, blood management programs and clinical data exchanges.

Accumen has been a trusted Supply Chain partner in healthcare for nearly 10 years and was recently named to Healthcare Tech Outlook's Top 10 Supply Chain Management Solution Providers.

### Who is EnvisionTEC?

EnvisionTEC is a leading global provider of professional-grade 3D printing solutions. EnvisionTEC has developed a 3D printed NP swab for COVID-19 testing and engaged Accumen as a channel partner to quickly increase hospital and health system access to this critical testing resource.

### What are the swab dimensions?

- Total Length: 148mm
- Handle Diameter: 2.5mm
- Neck Diameter: 1mm
- Neck Length: 39mm
- Head Diameter: 3mm
- Head Length: 17mm
- Head Feature Thickness: 0.4mm
- Handle Breakpoint Diameter: 1.5mm

### What materials are used for the swabs?

- E-Guide Soft C-29C resin
- Non-cytotoxic, non-irritating

### What's EnvisionTEC's production capacity?

One million per day.

### How do the swabs compare to alternatives, notably those used on PCR or molecular test platforms?

As part of the rigorous testing performed by BIDMC, a spiked sample was used to test performance of the 3D printed swab against a polyester control swab. BIDMC reports that results between the swabs did not vary.

### Are the swabs packaged and sterilized?

Routine orders will require sterilization by the hospital, allowing for mass production and packaging at the lowest cost. Sterilized swabs can also be purchased in smaller quantities at an additional cost. EnvisionTEC will send 25 sterile test swabs for initial evaluation.

### Are EnvisionTEC's Swabs FDA Registered?

Nasopharyngeal swabs are qualified as Class 1 and do not require FDA approval. EnvisionTEC has registered the swabs with the FDA and completed an IRB approved clinical trial.

- Registration Number: 3009261582

### Additional Details (from EnvisionTEC)

EnvisionTEC's 3D printed collection tip flexible nasal swab has completed testing in an IRB-approved clinical trial. The testing confirmed that that the swabs pick up viral RNA particles and do not interfere with PCR/reagents; that they are chemically safe; that they would bend 180 degrees without breaking; and that the design would be able to safely collect enough viral particles from the nasal passage to effectively test.

One of the major advantages of the EnvisionTEC NP swab over other 3D printed swabs is that it continued to perform the same after being sterilized by steam at 270°F at 27 Pa in an autoclave.