



## **ANOSMIC COVID-19 SMELL TESTER**

**A PRACTICAL AND  
EFFECTIVE APPROACH TO  
SCREENING FOR COVID-19**

  
**Virocule**

# OUR OBJECTIVE FOR TODAY



- To introduce you to ANOSMIC® COVID-19 SMELL TESTER, an innovative, medical device for screening for COVID-19,
- To share the science behind the technology
- To show you how easy, practical, and effective ANOSMIC can be in keeping families and coworkers safer

# ANOSMIC® IS A CLASS 1 MEDICAL DEVICE AND COVID-19 SCREENING TEST AUTHORIZED FOR SALE BY HEALTH CANADA

- ANOSMIC® is a spray-based device which gives off a characteristic odor engineered from a precise combination of organic ingredients
  - A sudden loss or degradation of smell indicates a possible risk of a COVID-19 infection
  - Subjects screening positive for an infection should proceed for a confirmatory test (RT-PCR)
- 
- **DISCLAIMER:** ANOSMIC® may not be effective for persons who may be COVID-19 positive but asymptomatic to sense of smell, or who have lost sense of smell for any reason such as autoimmune disorders, undergoing chemotherapeutic treatment, nasal congestion, neurodegenerative diseases.

Health Canada Santé Canada		Medical Devices Directorate Direction des instruments médicaux	
<b><u>COVID-19 Medical Device</u></b>		<b><u>Autorisation d'importation ou de</u></b>	
<b><u>Authorization for Importation or</u></b>		<b><u>mise en vente d'un instrument</u></b>	
<b><u>Sale</u></b>		<b><u>médical relatif au COVID-19</u></b>	
Authorization Reference Number :	319520	Numéro de référence de l'autorisation	
Issue Date:	2020-10-19	Date de délivrance:	
Device Class/Classe de l'instrument : 1			
<p>Pursuant to section 5 of the Interim Order Respecting the Importation and Sale of Medical Devices for Use in Relation to COVID-19, made by the Minister of Health on March 18, 2020, the medical device listed below is now authorized for sale or importation in Canada.</p> <p>Each shipment of a COVID-19 medical device that is imported into Canada must be accompanied by a copy of this authorization document. <b>Please ensure to highlight the Authorization reference number during the import declaration process to facilitate port entry without any delays.</b></p> <p>This authorization is only valid for so long as the Interim Order Respecting the Importation and Sale of Medical Devices for Use in Relation to COVID-19 is in effect.</p>		<p>Conformément à l'article 5 de l'Arrêté d'urgence concernant l'importation et la vente d'instruments médicaux relatifs au Covid-19, réalisé par la ministre de la Santé le 18 mars 2020, les instruments indiqués ci-dessous sont présentement autorisés pour la mise en vente ou l'importation au Canada.</p> <p>Tout envoi d'un instrument médical relatif au COVID-19 doit être accompagné d'une copie de la présente autorisation. <b>Veuillez vous assurer de souligner le numéro de référence de l'autorisation durant le processus de déclaration d'importation pour faciliter l'entrée sans délais aux points de contrôle frontalier.</b></p> <p>Cette autorisation est uniquement valide tant que l'Arrêté d'urgence concernant l'importation et la vente d'instruments médicaux relatifs au Covid-19 est en vigueur, ou l'autorisation est annulée.</p>	
<b>Device Name(s) Nom de l'instrument</b>			
ANOSMIC COVID-19 SMELL TESTER			
<b>Name &amp; Address of Authorization Holder/Nom &amp; adresse du titulaire de l'autorisation</b>			
VIROUCLE INC. 8500 LESLIE STREET, SUITE 101 MARKHAM, ONTARIO CANADA L3T 7M8			
<small>David Boudreau, ing., Director General, Medical Devices Directorate Directeur général, Direction des instruments médicaux</small>			
Application Number: Numéro de la demande:		319520	Manufacturer ID: Identificateur du fabricant: 160784

# ANOSMIC<sup>®</sup> IS BASED ON NEW SCIENTIFIC EVIDENCE – ANOSMIA IS AN EARLY & RELIABLE MARKER FOR COVID-19



## Study Adds to Evidence That Odor-Sensing Cells in Nose Are Key Entry Point for Coronavirus

By **Waun'Shae Blount** on 08/20/2020

Excerpt:

... SARS-CoV-2 latches on to a biological hook on the surface of many types of human cells, called an angiotensin-converting enzyme 2 receptor (ACE2).

They found high levels of ACE2 among certain types of nasal cells where odor-sensing neurons are found.

**The cells lining the nose may prove to be a key entry point for SARS-CoV-2**, and Lane says there may be ways to target those particular cells with topical anti-viral drugs or other therapies directly to that area.

Full Article

<https://www.hopkinsmedicine.org/news/articles/study-adds-to-evidence-that-odor-sensing-cells-in-nose-are-key-entry-point-for-coronavirus>



PUBLIC HEALTH

## Mysteries of COVID Smell Loss Finally Yield Some Answers

Explanations begin to arise at the molecular level for this vexing but commonplace symptom

By Stephani Sutherland on November 18, 2020

Excerpt:

**An estimated 80 percent of people with COVID-19 have smell disturbances**, and many also have dysgeusia or ageusia (a disruption or loss of taste, respectively) or changes in chemesthesis (the ability to sense chemical irritants such as hot chilies). **Smell loss is so common in people with the disease that some researchers have recommended its use as a diagnostic test because it may be a more reliable marker than fever or other symptoms.**

Full Article:

<https://www.scientificamerican.com/article/mysteries-of-covid-smell-loss-finally-yield-some-answers1/>

STAT

HEALTH

## Fever checks are a flawed way to flag Covid-19 cases. Experts say smell tests might help

By SHARON BEGLEY @sxbegley / JULY 2, 2020

Reprints

Excerpt:

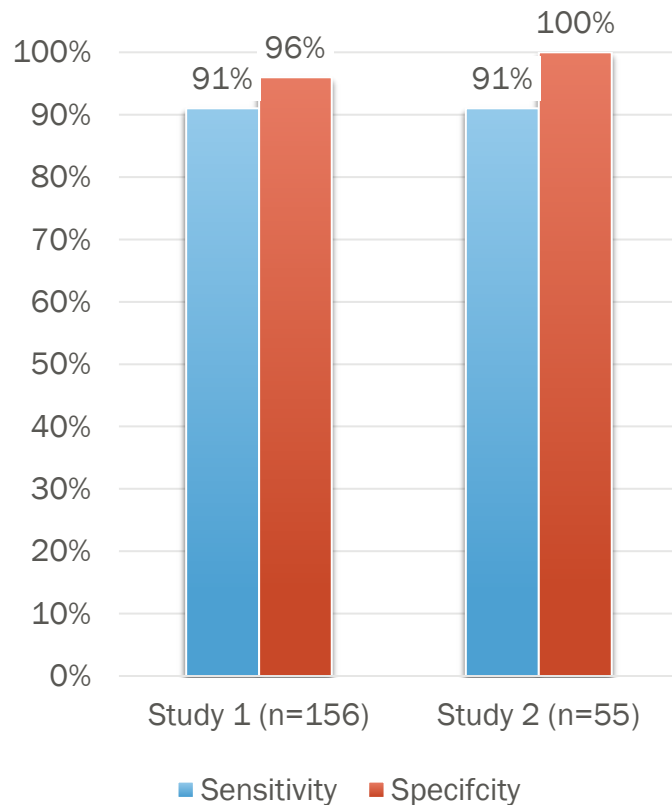
Of all the nose-to-toes symptoms of Covid-19, the loss of the sense of smell — anosmia — **could work particularly well as an add-on to temperature checks, significantly increasing the proportion of infected people identified by screening in airports, workplaces, and other public places.**

**... anosmia is an earlier symptom of Covid-19 relative to fever, and some infected people can have anosmia and nothing else,**" said physician Andrew Badley, who heads a virus lab at the **Mayo Clinic**. "So, it's potentially a more sensitive screen for asymptomatic patients."

Full Article

<https://www.statnews.com/2020/07/02/smell-tests-temperature-checks-covid19/>

Clinical Study Results  
ANOSMIC COVID-19 Smell  
Test



**ANOSMIC™ HAS HIGH SENSITIVITY AND SPECIFICITY –  
DEMONSTRATED 90% ACCURACY IN CLINICAL STUDIES**

- Two clinical studies were conducted in Rajasthan University of Health Sciences and SME Hospital in India as follows:
- 1<sup>st</sup> Clinical Study:  
Retrospective symptomatic COVID positive patients (n=56), COVID negative patients (n=50) confirmed by PCR, and healthy asymptomatic untested subjects (n=50). Achieved 91% sensitivity and 96% specificity,
- 2<sup>nd</sup> Clinical Study:  
Prospective symptomatic of incoming untested subjects (n=55) at RUHS. Achieved 91% sensitivity and 100% specificity
- 3<sup>rd</sup> Clinical Study:  
Prospective of symptomatic (n=100) and asymptomatic (n=500) in progress

# HOW IT WORKS AS EASY AS 1-2-3

SPRAY – SNIFF – ASSESS

- ANOSMIC® Test Positive:  
*Seek a confirmatory test (RT-PCR)  
and self isolate*

## Benefit:

- Infect fewer other people
- Get care early in the disease stage

- ANOSMIC® Test Negative:  
*Continue to be vigilant about other  
symptoms (e.g. fever)*

## Benefit:

- With combination of methods,  
probability of intercepting  
disease much higher than any  
one method alone





# ANOSMIC<sup>®</sup> HAS THE ATTRIBUTES OF AN IDEAL TEST

## *STRENGTH IN SIMPLICITY*



Rapid

Test in under 30 seconds



Reliable

90% Accuracy



Affordable

Less than 30 cents/test



Non-invasive

Smell from a distance



Convenient

Anytime and Anywhere



Early Detection

Nasal Passage Gateway



ESSENTIAL WORKERS



HOMELESS SHELTERS  
& FOOD KITCHENS



SCHOOLS

**THE NEED FOR SCREENING CUTS ACROSS ALL  
SPECTRUM OF SOCIETY TO KEEP THEM SAFE**