

# NIOX<sup>®</sup> Technology

Discover the technology behind the gold standard  
FeNO testing device, NIOX VERO<sup>®</sup>



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**MED VENTURES INC.**







# The device of choice<sup>1</sup>

Thousands of healthcare professionals are using NIOX VERO<sup>®</sup> every day to improve patient outcomes.

With millions of FeNO tests completed worldwide, NIOX<sup>®</sup> is dedicated to transforming asthma care.

Discover why NIOX VERO<sup>®</sup> is the ultimate FeNO solution.

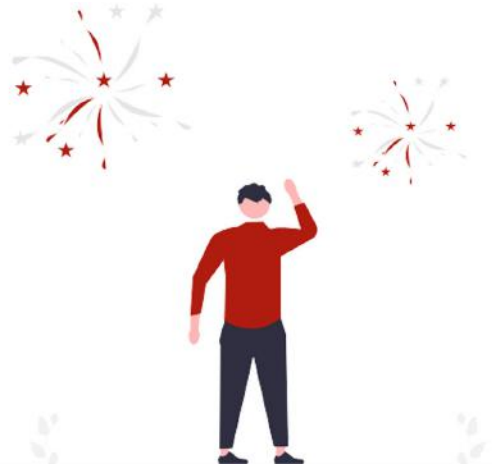
# Let the magic happen!

As soon as you switch NIOX VERO® on, the device checks the temperature, ambient humidity and atmospheric pressure, so you don't have to think about it.

At the same time, NIOX VERO® verifies whether the battery, sensor and breathing handle are connected properly.

## Start-up

Discover how NIOX® gets itself ready to test FeNO.





# Intelligent action system

NIOX VERO® knows when you need to take action. The device will alert you if it recognises anything that might compromise test accuracy.

Our dedicated NIOX® Support Hub includes lots of resources if you would like to learn more.

# Always aware

NIOX VERO® continuously monitors its surroundings to ensure you get the right result each time, every time.



# Simply breathtaking

High levels of environmental NO can impact the accuracy of your FeNO results.<sup>2</sup> Thankfully, the unique NIOX<sup>®</sup> breathing handle includes a scrubber that filters out ambient NO at inhalation. This ensures that NIOX VERO<sup>®</sup> reflects patients' personal FeNO levels.

## Did you know?

Ambient NO levels can vary from 2 to 500 ppb! That's why it is crucial to eliminate it from a patient's breath.<sup>3</sup>

## Inhale

Unique to NIOX<sup>®</sup>, inhaling first achieves the best results.





## Exceptional filtration efficiency

Have you ever wondered how safe it is to use NIOX VERO®? Well, NIOX® filters have been extensively tested in independent laboratories and have obtained amazing results.<sup>4</sup>

**≥99.99%**

Bacterial filtration efficiency

**≥99.97%**

Viral filtration efficiency

# One test, one result

NIOX<sup>®</sup> protects your patients from failing a test. Flow Rate Control<sup>™</sup> guides your patients to a successful test, leading to an accurate result each time, every time.



## Three engaging animations

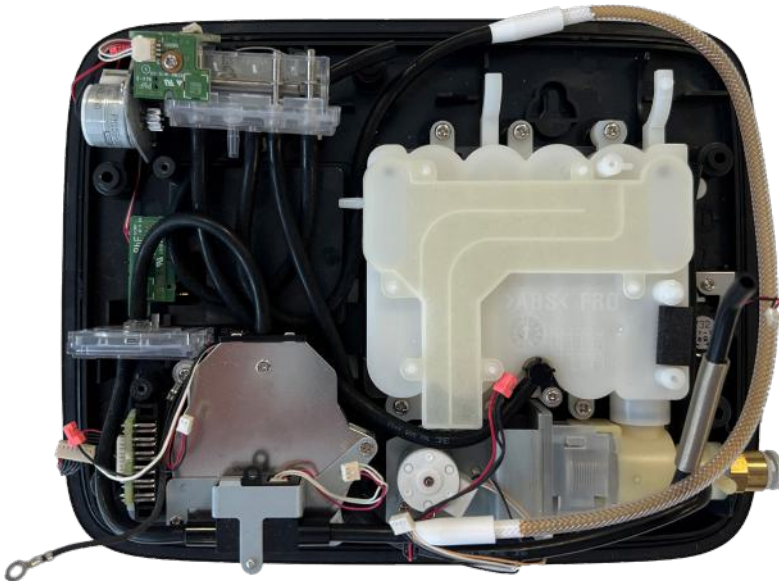
Keeping a steady exhalation throughout the test is crucial to obtain an accurate FeNO result. NIOX<sup>®</sup> has clinically validated visual and audio cues to make completing a test simple and fun.

### Exhale

See what NIOX<sup>®</sup> achieves in ten seconds.

# Attention to detail

Our development and research team considered every aspect of accuracy. For example, NIOX® includes specially rifled tubing designed to remove excess humidity from the patients breath.



An exclusive look at the innovative technology inside NIOX VERO®

# Next level analysis

NIOX VERO® also takes a ‘zero gas’ measurement immediately after the patient’s test. This is subtracted from the final result, to further ensure the patient’s FeNO value is accurate and reliable, with no need for any calibration of the sensor or device.



## Last but not least

Knowing a patient’s true FeNO level comes from analysing breath from the lower lungs.<sup>2</sup> NIOX VERO® keeps just the last 3 seconds of the 10-second exhalation to ensure that only breath from the alveoli is tested.

## Analysis

This is where the magic happens.

# A unique algorithm

NIOX<sup>®</sup> electrochemical sensor uses a well-established and documented algorithm based on a linear relationship between sensor signal and gas concentration, to ensure accurate results over the full sensor range without compromise.



# Discover NIOX®

Learn more about FeNO and NIOX®  
at [mlsmedph.com/feno-niox/](https://mlsmedph.com/feno-niox/)



LEARN MORE ABOUT FENO NIOX

## References

1. Data on file C-NIOX-0004. Circassia Ltd. 2. ATS/ERS recommendations for standardized procedures for the online and offline measurement of exhaled lower respiratory nitric oxide and nasal nitric oxide. Am J Respir Crit Care Med. 2005;171(8):912-30. 3. Clapp LJ, Jenkin ME. Analysis of the relationship between ambient levels of O<sub>3</sub>, NO<sub>2</sub> and NO as a function of NO<sub>x</sub> in the UK. Atmos Environ. 2001;35(36):6391-6405. 4. Data on file C-NIOX-0009. Circassia Ltd.

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