

Measure Breath Nitric Oxide for Airway Inflammation...

...with NObreath[®] F_ENO monitor



Improving quality of life, one breath at a time

www.bedfont.com



NObreath® F_{ENO} monitor

Fractional Exhaled Nitric Oxide (F_{ENO}):

Airway inflammation is a central process in asthma and other lung diseases⁴. Being able to measure this inflammation and monitor the patient's reaction to medication is regarded as a gold standard in the management of respiratory diseases. It is increasingly recognised that the measurement of F_{ENO} in particular constitutes a novel way to monitor separate aspects of diseases. These include asthma, COPD and interstitial lung diseases, that are not assessed by other means, such as lung function².

F_{ENO} measurements to evaluate airway inflammation in asthma represents a significant advance in respiratory medicine¹, but until now this has been an expensive test to deliver in everyday practice.

Benefits of performing F_{ENO} tests:

- Non invasive, quick and easy to perform¹
- Shows patient's response to treatment, enabling the correct prescription of medication
- Shows patient compliance
- Aids in identifying patients who do/do not require ongoing treatment³
- Shown to be superior to the majority of conventional tests of lung function, such as peak flow recording and spirometry¹



Each NObreath® comes complete with:

50 Mouthpieces – specifically designed with the latest bacterial filtration to remove 99.9% of airborne bacteria from the patient's breath. These can be used up to 3 times per patient, dramatically reducing the cost of testing for F_ENO.

Order Code	Description
NTK50	50 Mouthpieces and 1 NObreathFlo™
NTK100	100 Mouthpieces and 2 NObreathFlo™
NTK300	300 Mouthpieces and 6 NObreathFlo™
NTK1000	1000 Mouthpieces and 20 NObreathFlo™
NTK1400	1400 Mouthpieces and 28 NObreathFlo™



NObreathFlo™ – eye level flow indicator makes keeping a constant flow during exhalation easy, even for young children. Using the NObreathFlo™ and mouthpieces provided allows the user to comply with ATS/ERS guidelines for F_ENO testing². The NObreathFlo™ is changed after 50 mouthpieces are used to further reduce the risk of cross-infection



NObreathFlo™ Trainer – for patients to practise their technique before taking the test to ensure correct results and avoid using consumables unnecessarily.



Carry case – for protecting the NObreath® whilst in storage or when being transported.

25 alcohol free Cleaning Wipes – Wipes/gels containing alcohol cannot be used on the NObreath® or any of its components. **Order code – WIPE-BB**

NObreath® Features

Battery Indicator

The NObreath® requires 3 AA batteries, making it totally portable and easy to transport.

Colour Touch Screen

For quick and easy use, with visual prompts for patients whilst taking a test to ensure correct results every time.

ABS body

for easy grip and cleaning for optimum infection control every test.

Internal pump and NO scrubber

Enabling warm up and recovery time to be a maximum of 60 seconds by constantly presenting the sensor with NO free ambient air.



Measuring FE_{NO} with NObreath® is as easy as 1, 2, 3

1



Inhale

2



Exhale

3



Readings instantly available

Technical Specification

Concentration range:	5-300ppb nitric oxide
Accuracy:	± 5ppb of measured value ≤50ppb ± 10% of measured value >50ppb
Repeatability:	± 5ppb of measured value ≤50ppb ± 10% of measured value >50ppb
Sensor sensitivity:	5ppb
Breath test time:	16 seconds
Response time	<10 sec
Warm up time	<2 mins
Ambient air test:	30 seconds
Operating temperature range:	10-30°C (ambient)
Operating relative humidity (environmental):	10-80% Rh (non-condensing)
Sensor operating life:	1-2 years; 6 month warranty
Detection principle:	Electrochemical sensor
Sensitivity drift:	<5% per annum
Maximum ambient operating level:	350 ppb NO
Power:	4.5V DC: 3 x AA (LR6 or equivalent) alkaline batteries
Battery Life (1 set of 3 AA batteries):	Up to 120 tests
Display:	Colour LCD with touch screen
Dimensions:	Approx. 152 x 87 x 47mm
Weight:	Approx. 400g including batteries
Construction:	Case – Polycarbonate/ABS blend with elastomeric overmould NObreathFlo – Polycarbonate/ABS blend Mouthpiece – Polypropylene

References:
 1. Andrew D. Smith, Jan O. Cowan, Sue Filsell, Chris MacLachlan, Gabrielle Monti-Sheehan, Pamela Jackson and D. Robin Taylor. Diagnosing Asthma: Comparisons between Exhaled Nitric Oxide Measurements and Conventional Tests. Am J Respir Crit Care Med Vol 169. pp 473-478, 2004.
 2. ATS/ERS Recommendations for Standardized Procedures for the Online and Offline Measurement of Exhaled Lower Respiratory Nitric Oxide and Nasal Nitric Oxide, 2005; American Journal of Respiratory and Critical Care Medicine; vol. 171: 912-930;2005
 3. D R Taylor, MW Pinenburg, A D Smith and J C D Jongste. Exhaled nitric oxide measurements: clinical application and interpretation. Thorax 2006;61:817-827.
 4. Shelhamer JH, Levine SJ, Wu T, Jacoby DB, Kaliner MA, Rennard SI. NIH conference: airway inflammation. Ann Intern Med 1995;123:288-304.



Contact Bedfont or one of our worldwide **NObreath[®]** distributors for a free demonstration

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A full list of our worldwide distributors can be found at
<http://www.bedfont.com/uk/english/distributors>

breath analysis is the new blood test

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