

FENO – Offline Collection Kit

Offline FE_{NO} measurements in accordance to ATS/ERS guideline

Your advantage:

Infant and adult application

Supports single breath technique

Independent testing from NO analyzer

NO free air generation from ambient air

Integrated adaptive flow control and pressure gauge



With the publication of the ATS and ERS recommendations¹, measurements of exhaled nitric oxide have become an easy, reliable and quantifiable method to detect airway inflammation. The offline collection kit offers independent measurements remote from the analyzer. It is designed for the ANALYZER CLD 88 series NO analyzer to perform single breath tests.

The offline collection kit offers a useful additional option to existing FENO analyzers. The advantage of offline FENO measurement is that samples can be easily collected at any location, without the need to have the analyzer at site.

The sample is collected with the hand held collector into an attached reusable Mylar bag. An oropharyngeal pressure of 15 to 20 cm H₂O is generated by an internal resistor to minimize nasal contamination. The pressure gauge indicates the pressure to maintain a constant expiratory flow.

The attached scaled dead space discard bag guarantees comparative results to online analysis. The NO concentration in Mylar bags remains stable for several hours.²

Offline FENO test - advantages:

- collection at sites remote from the analyzer (hospital ward, clinic, workplace, school, and remote laboratory)
- more efficient use of the analyzer because gas may be collected from several patients simultaneously and less analyzer time per patient is required

Specification:

Application range: cooperative patients
Exp. flow control: 50 ml/s at 15 to 20 cm H₂O
Insp. NO conc.: < 5 ppb

Including: Breathing filter, NO filter, pressure gauge, reusable Mylar bag with Luer connector and dead space discard bag

1. ATS/ERS Recommendations for Standardized Procedures for the Online and Offline Measurement of Exhaled Lower Respiratory Nitric Oxide and Nasal Nitric Oxide, 2005; ATS Board of Directors, December 2004, and by the ERS Executive Committee, June 2004
2. Exhaled nitric oxide in mylar balloons: influence of storage time, humidity and temperature, Bodin / Pijnenburg / Boner / deJongste; Mediators of Inflammation, 12, 47_/49 (2003)

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