

Get a Whiff of this...

SMT Sniff Magnitude Testing

For the clinical evaluation of olfaction
in a wide variety of patients.

*Anosmia and hyposmia have been noted as
early symptoms of AD and idiopathic PD.*

The SMT Device

- Places minimal dependence on language, cognitive ability, memory, and odor naming ability.
- Differentiates between deficits caused by a loss of primary sensory input and those caused by higher-order processing associated with troposmia, phantosmia, and olfactory agnosia.
- Is not affected by deficits in memory or attention in older adults.
- Provides a quantified measure of olfactory function.

TESTING IS: RAPID | INEXPENSIVE | RELIABLE | SIMPLE



WR
WR Medical Electronics Co.

SMT Technical Specifications

Computer Specifications

- > 1.2Ghz processor running Microsoft Windows XP
- > 256Mb RAM Memory
- > 10Gb Hard Disk (Storage)
- CD-ROM Drive
- Screen Resolution 1024 x 768 /64K color
- 1 Serial communication port (RS232) or USB adaptor
- 1 USB Port
- Internet Explorer 5.0+
- Laser or Inkjet Printer
- WR Testworks Software with SMT License

Canister Specifications

- Canister #1 = NULL (5ml unscented mineral oil)
- Canister #2 = Methyl thiobutyrate 3% (5ml of 3% saturated-mineral oil), CAS# 2432-51-1
- Canister #3 = Ethyl 3-mercaptopropionate 3% (5ml of 3% saturated mineral oil), CAS# 5466-06-8
- Canister #4 = Isoamyl acetate 3% (5ml of 3% saturated mineral oil), CAS# 123-92-2

Control Unit Specifications

- Power Input 100-240Vac ~ 0.8a-0.4a ~ 47-63Hz (Wall Transformer)
- Power Output 24Vdc ~ 1.24A (Wall Transformer)
- Communication ~ RS232
- IXPO ~ Liquid Ingress (Ordinary)
- Cannula Connection - Airlife™ #001310 or equivalent

Quality and Safety

ISO 9001:2000
ISO 13485:2003

Indications for use:

- The SMT (Sniff Magnitude Device) is only intended to determine whether an olfactory loss is present. Not intended for the diagnosis of any particular or specific disease

Contraindications:

- None.

Warnings and Cautions:

- Warnings: None.
- Cautions:
 - This device is restricted to sale by or on the order of a physician.
 - This device is to be serviced only by WR Medical Electronics Co. If servicing is done by any party other than WR Medical Electronics Co., the product warranty and/or safety or quality certifications could be invalid. Contact the factory for repair advice before attempting to repair.

References:

Publications and Manuscripts submitted:

Frank RA, Dulay MF, Gesteland RC. Assessment of the Sniff Magnitude Test as a clinical test of olfactory function. *Physiology & Behavior* 2003, 78: 195-204.

Frank RA, Dulay MF, Niergarth KA, Gesteland RC. A comparison of the Sniff Magnitude and the University of Pennsylvania Smell Identification Test in children and nonnative English speakers. *Physiology & Behavior* 2004, 81: 475-480.

Frank RA, Seiden A, Bailie J, Rybalsky K, Gesteland RC. Characterization of the Sniff Magnitude Test. *Arch. Of Otolaryngology, Head & Neck Surgery*.

Bailie J, Rybalsky K, Horning S, Hoffman J, Griffith N, Gesteland R and Frank R. Assessing the susceptibility of selected olfactory measures malingering and coaching performance.

Dulay MF, Frank RA Assessment the influence of and cognitive processing speed on three tests of olfaction.

Abstracts of Sniff Magnitude Testing: Poster and meeting presentations:

R. A Frank, M. Dulay, R. Voorhees, P. McKenzie & R. C. Gesteland (2000)
A novel approach to the clinical evaluation of olfaction. (2000) *Chem. Senses* 25.

M. F. Dulay, T. Reinhard, R Gesteland & R. Frank (2001) Sniff magnitude as a clinical measure of olfactory acuity: a comparison to thresholds, the UPSIT and the alcohol sniff test. *Chem. Senses* 26.

K. A. Niergarth, M. F. Dulay, R. C. Gesteland & R. A. Frank (2002) Assessment of olfactory function in children using the Sniff Magnitude Test *Chem. Senses* 27.

K. A. Niergarth, M. F. Dulay, R. C. Gesteland & R. A. Frank (2003)
Characterization of the Sniff Magnitude Test. *Chem. Senses* 28.

M. F. Dulay, K. A. Niergarth, P. K. Shear, R. A. Frank & R. C. Gesteland (2003) The Sniff Magnitude Test: a sensory measure minimally influenced by cognitive factors. *Chem. Senses* 28.

R. A Frank, M. F. Dulay, K. Niergarth & R. C. Gesteland (2003) A novel measure of olfactory ability: the Sniff Magnitude Test Pangborn Symposium July.

H. M. Sheena, H.J. John, K. A. Rybalsky, J. Bailie, R. C. Gesteland & R. A. Frank (2005) Task demands affect sniffing behavior, *Chem Senses* 30.

For more information on this product, please contact:



www.wrmed.com
123 North 2nd Street
Stillwater, MN 55082

800.635.1312 Fax: 800.990.9733