



**NEW!**

product catalog

**Manufacturer and Distributor of  
Quality Quantitative Tests  
of Taste and Smell.**

**2009 - 2010**



**SENSONICS, INC.**

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**S**ensonics, Inc., whose international headquarters are in Haddon Heights, NJ, USA, is devoted to providing the medical and scientific communities with the best products for assessing chemosensory function. Sensonics also offers industrial and medical consulting services. These include setting up and training organoleptic panels for the food, flavor and fragrance industries, product evaluation, screening of smell function of workplace employees, quantitative sensory testing of persons complaining of taste and/or smell loss, and a host of other chemosensation-related activities. The importance of accurately measuring taste and smell function in the clinic and workplace is now widely recognized. Our smell tests have served as a model for surveys conducted by *National Geographic Magazine* and other publications. The Smell Identification Test™ is the world-wide standard for testing olfaction.

## Sensonics *Overview*

### Use Our Tests To:

- Assess Smell and Taste Function Practically and Accurately
- Track Smell Function Logitudinally through the Mail
- Increase Clinical Practice Revenue
- Evaluate Chemosensory Ability of Employees Working in Hazardous Environments
- Perform Exacting Scientific Taste and Smell Studies with Minimal Effort
- Select the Best Sensory Panels and Increase Industrial Product Quality
- Test Taste Function Without the Use of Messy Solutions



**Quick and Easy Ordering Always Available Online!**

**[www.sensonics.com](http://www.sensonics.com)**



Numerous studies have employed our tests in epidemiological and occupational medical settings. For a complete listing of article citations, please visit our website.

## Smell Tests

### The Smell Identification Test™ (SIT)

Also known in the medical and scientific literature as the UPSIT



- Each test consists of 40 odorants in 4 booklets

A very reliable (test-retest  $r=0.94$ ) and accurate self-administered test of olfactory function that has been heralded as being akin to the eye chart in vision. This test provides an absolute index of smell loss (anosmia: mild,

moderate, or severe microsmia), as well as an index for detecting malingering. A percentile rank of the examinee is provided based upon norms from nearly 4,000 men and women spanning the entire age range.



### NEW! SIT International Versions

The Smell Identification Test™ is now available in the following versions:

- American
- British
- Simplified Chinese
- Traditional Chinese
- Dutch
- French
- Italian
- German
- Japanese
- Korean
- Portuguese
- Spanish



Minimum Order = 7 tests  
(7 x \$26.95 = \$188.65)

Specify language version

\$26.95

### The Smell Identification Test™ Administration Manual

Provides detailed instructions for the valid administration and interpretation of the SIT. Normative data (including diagnostic categories and percentile scores for both sexes and across all ages) are

based on nearly 4,000 subjects. A detailed description of the test's development and validation are provided. Now available in English, Japanese and German versions. Includes scoring key.

Specify language version

\$24.50

### The Picture Identification Test™ (PIT)

A research tool for screening cognitive confounds. This 40-item test is equivalent to the SIT except that pictures, rather than odors, are used as stimuli. Provides a control, in experimental settings, for non-olfactory components of the SIT. Can be used multiple times.



\$19.95

## Smell Tests



### The Pocket Smell Test™ (PST)

#### A 3-odor forced-choice screening test

This 3-item test provides a very brief screen of gross olfactory dysfunction. If the examinee misses one or more of the three items on the test, then the 40-item Smell Identification Test™ should be administered to more accurately quantify the degree of smell loss. This test is recommended as a very brief screen only, even though it has been used in published scientific studies [e.g., Solomon et al. (1998) *J Neuropsychiat Clin*

*Neurosci* 10; 64] and only has a 1 in 64 chance of missing true total anosmia.

- **American Version:** lemon, lilac, smoke
- **Universal Version:** peanut, mint, paint thinner
- **Smoke Version:** smoke, lemon, lilac
- **Gas Co. Version:** apple, natural gas, rose

Specify version

Minimum Order = 75 tests  
(75 x \$1.90 = \$142.50)

**\$1.90**



### The Gas Company Smell Test™

The simple and most cost-effective way to meet government standards and ensure that your workforce can smell the odor of natural gas. Industrial workers who work in hazardous environments or in situations where smell warning is essential should be evaluated for smell function on a regular basis.

Self-administered microencapsulation technology allows testing of dozens at the same time. Obtain results in less than 10 seconds!



This test requires the examinee to indicate which of the three odors smells like natural gas.

Minimum Order = 75 tests  
(75 x \$1.90 = \$142.50)

**\$1.90**

## Smell Tests

### The Brief Smell Identification Test™ (B-SIT)

Also known as the Cross-Cultural Smell Identification Test™



A rapid and effective 5-minute screening test. This 12-item version of The Smell Identification Test™ is useful for detecting smell loss in situations where less than five minutes of time are available. The B-SIT has been valuable in population surveys and general workplace studies. The items of this self-administered test are well known in most cultures, making it a popular item in

Europe, South America and Asia. This test employs the following 12 odorants: banana, chocolate, cinnamon, gasoline, lemon, onion, paint thinner, pineapple, rose, soap, smoke and turpentine. Percentile norms, based upon nearly 4,000 subjects are available within the B-SIT Administration Manual. **The B-SIT is now available in Simplified Chinese.**



### Brief Smell Identification Test™ - Version A

Version A employs the following test items: clove, leather, lemon, lilac, menthol, natural gas, pineapple, smoke, soap, and strawberry. See Taber et al. (2005) *Ann Neurol* 58(1): 155-160.



NEW!

*Now available in Danish, Dutch, German, Greek and Swedish.*

### Brief Smell Identification Test™ - Version B

Version B employs the following test items: strawberry, licorice, lemon, grass, coconut, rose, paint thinner, banana, pizza, clove, wintergreen, and lime. See Hawkes et al. (1997) *Jnl Neurol Neurosurg Psychiat* 62: 436-446.



NEW!

Minimum Order = 10 tests

(10 x \$14.95 = \$149.50)

Specify version

\$14.95

### The Brief Smell Identification Test™ (B-SIT) Administration Manual

Provides detailed instructions for the valid administration and interpretation of the B-SIT. Normative data and percentile scores based on nearly 4,000 subjects are presented for both sexes across a wide age range. Includes scor-

ing key that is compatible with all three versions of the B-SIT and the various language versions that are available.

\$19.95

## ● Smell Tests

### Basic Introductory/ Combination Package

#### Includes:

- 50 Pocket Smell Tests™\*
- 4 Smell Identification Tests™
- SIT Administration Manual
- Scoring Keys



\*Universal Version unless requested otherwise.

(a \$227.30 value) **195.95**

### Deluxe Introductory/ Combination Package

#### Includes:

- 50 Pocket Smell Tests™\*
- 4 Smell Identification Tests™
- 5 Brief Smell Identification Tests™
- 1 Odor Memory Test™
- Administration Manuals
- Scoring Keys



\*Universal Version unless requested otherwise.

(a \$376.45 value) **\$269.50**



## Smell Tests

### The Quick Smell Identification Test™ (Q-SIT)



The Quick Smell Identification Test™ or Q-SIT is a modification of the widely used Pocket Smell Identification Test™, and employs an additional response category for indicating anosmia or the presence of a distorted odor. The Q-SIT

comes in convenient booklets with a tear-off portion for presentation to the patient. The booklet contains 20 tests.

\$39.95

### The Odor Memory Test™ (OMT)



The 12-item Odor Memory Test™ (OMT) is a non-verbal test of both odor discrimination and memory. This test provides an overall score, as well as a test score for each of three delay intervals: 10 sec., 30 sec. and 60 sec. The OMT is appropriate when central damage to the olfactory system is suspected and when a non-verbal test is necessary. Following the smelling of an inspection odor, four

alternatives are presented, the first after a given delay interval, and the patient or subject is required to identify which one corresponds to the inspection odor. This test is highly reliable (test-retest  $r = 0.80$ ) and applicable to many research and clinical test situations.

Minimum Order = 7 tests  
(7 x \$29.95 = \$209.65)

\$29.95

### The Odor Memory Test™ (OMT) Administration Manual - 2nd Edition

The Odor Memory Test™ (OMT) Administration Manual provides detailed instructions for the valid administration and interpretation of test results. Normative data are provided by both age and sex. Since a scoring key is built into this test, no separate key is required.

\$24.50

## Smell Tests



### The Smell Threshold Test™

Finally, a standardized threshold test that works!

Based upon nearly two decades of research at, the Smell Threshold Test™ provides an affordable, practical and reliable detection threshold measure that you can count on! Norms are based upon hundreds of subjects; 75%, 95%, and 99% confidence intervals provided for each decade of age. The Smell Threshold Test™ is a compact, portable smell testing kit housed in an attractive aluminum carrying case that can serve as a test table. The entire kit weighs less than six pounds (2.72 kg). Odorants are contained within a proprietary absorbent, eliminating liquid stimuli. Ergonomically-designed stimulus bottles provide consistent output. Built-in thermometer and calculator ensure maintenance of optimal testing conditions and accurate determination of threshold values. Convenient re-



sponse forms included. The odorant employed is pure CN I stimulant phenyl ethyl alcohol. Custom odors are available by special order. Manual included.

- Detect Malingering
- Bilateral or Unilateral Testing
- No Mixing of Messy Chemicals
- Hundreds of Industrial, Academic, and Clinical Applications
- 17 half-log concentration steps ranging from -10 log vol/vol to -2 log vol/vol

**\$1295.00**

### The Smell Threshold Test™ Manual and Refills

The Smell Threshold Test™ requires proper administration and has a manual that teaches the necessary techniques and data collection methods. Odorant refills are available. The manual and odorant refills may each be purchased separately.

Refills \$975.00; Manual \$24.50





**The Sniff Magnitude Test (SMT)**

The Sniff Magnitude Test provides a measure of olfactory dysfunction not dependent upon verbal report. Judged by *Popular Science* magazine as one of the top 100 scientific inventions of 2007.

Sniff magnitude ratios are calculated as the ratio of average sniff magnitude (area under the sniff curve) to malodor, divided by the average sniff magnitude to a null odor.

A pleasant odor is also provided to confirm possible anosmia.



**Computer Specifications:**

- > 1.2 Ghz processor running on 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



The SMT is only intended to determine whether an olfactory loss is present, and is not intended for the diagnosis of any disease.

**RAPID • RELIABLE • SIMPLE**

**\$5995.00**

## Nasal Airflow Tests

Sensonics **Products**



### ACOUSTIC RHINOMETRY

**NEW!**

#### A1 Clinical Acoustic Rhinometer

A quick non-invasive means to quantify nasal cavity volumes and cross sectional areas using sound pulse technology.

Reflections of the sound pulse, produced by changes in the cross sectional area of the nose, are processed by the PC to provide a plot of area, as a function of distance, into the nose. Numerical information such as the area at certain distances and volumes between certain points in the nose can also be presented.

In addition to providing a means of establishing nasal obstruction that may adversely influence smell testing, this device has multiple applications. These include surgical pre/post comparisons, nasal symmetry assessment, allergen challenge recording, and quantification of the nasal effects of decongestants, hay fever and viral infections.



Runs on Windows 98 or later and includes 5 pairs of medium and large anatomically conformed nosepieces, a PCI interface card with set up software and manual, adjustment tools and user hardware and software manuals.

#### Software/Hardware Requirements:

- Microsoft 98 or later
- Room for either a half size PCI bus expansion card or a PCMCIA card
- Any printer with a Windows driver

**\$6170.00**



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## ● **Nasal Airflow Tests**

**RHINOMETRY** **NEW!**

### **NR6 Clinical Research Rhinomanometer**

The NR6 calculates nasal airway resistance by measuring nasal flow and the pressure producing that flow.

Active anterior or posterior rhinomanometry, using either the Broms or standard techniques, can be performed.

The NR6 examination results are calculated using the four phase system approved by the International Standardization Committee.

The NR6 provides an individual patient database, which holds patient details and stores test result files, in chronological order, for ease of display on printout and comparison.

Test results can be compared with ones previously stored. This comparison is presented in the form of a graphical display with percentage change figures produced.



Files can be saved to disk or recalled for comparison, re-examination or printout. Tests can be performed using one of a number of techniques and re-assessed by changing the reference or threshold points.

#### **Software/Hardware Requirements:**

- Microsoft 98 or later
- Room for either a half size PCI bus expansion card or a PCMCIA card
- Any printer with a Windows driver

**\$5779.00**



## Taste Tests

### TR-06 Rion Electrogustometer

The TR-06 Rion Electrogustometer is a state-of-the-art instrument that sets the world standard for electrogustometry.

Provides a straightforward and rapid means for assessing taste function without the mess of chemical taste solutions.

Threshold and suprathreshold testing can be performed. Discrete stimulus pulses can be presented ranging from 0.5 to 2 sec durations at current ranges varying from - 6 dB (4 $\mu$ A) to 34 dB (400 $\mu$ A) in 21 total steps.

**Replacement parts are available for separate purchase.**

#### Supply List:

- Additional Dual Element Electrodes \$43.00 each
- Additional Single Element Electrodes \$48.00 each
- Electrode Pads (25 count per pack) \$75.00 per pack

Note: Electrodes can be sterilized for multiple uses.



Shipping is \$15.00 within the U.S. and \$50.00 elsewhere.

**\$3995.00**

## Books

### Handbook of Olfaction and Gustation

*Second Edition, Revised and Expanded*

Edited by Richard L. Doty, PhD, University of Pennsylvania Medical Ctr., Philadelphia, PA, USA

Marcel Dekker, March 2003/1200+ pages, illus., including color photographs!

The largest and most authoritative publication of the senses of taste and smell ever compiled. Considered the "bible" of the chemical senses, contains 48 chapters authored by over 80 of the world's leading authorities. In addition to an extensive historical introduction, includes comprehensive chapters on anatomy, development, structural and functional imaging, genetics, neurobiology, sensory evaluation, structure/

activity relationships, and patient assessment and management. Includes clinical chapters emphasizing rhinological conditions, neurodegenerative diseases, schizophrenia, toxicology, multiple chemical hypersensitivity, trauma and nutrition. Chapters on CN O, CN V, and the septal and vomeronasal organs, as well as cybernetics and pheromones, are included.



**\$230.00**

## Books

### The Neurology of Olfaction

Christopher H. Hawkes, Neuroscience Centre, Barts & The London School of Medicine & Dentistry, London

Richard L. Doty, University of Pennsylvania School of Medicine

Cambridge, 2009/256 pages, 25 halftones, 18 plates, 4 tables, paperback.

The Neurology of Olfaction describes the anatomy and physiology of human olfaction and how it may be measured. The book covers neurologic disorders in depth and a comprehensive chapter is devoted to neurodegenerative disorders, particularly Alzheimer's disease and Parkinson's disease, where loss of smell is frequent and may be an early preclinical feature that could predict the onset of disease in asymptomatic subjects. Finally, the authors describe methods of treatment for anosmia, evaluate its medicolegal importance, and give guidance for those unfortunate enough to

have lost their sense of smell.

#### Inside you will find:

- Clinically oriented focuses on loss of smell in neurological disease, with illustrative case-histories.
- Enough basic science to underpin clinical sections and act as a useful introduction for neuroscientists.
- Clear guidance on assessing sense of smell.



\$89.00

### Olfaction and the Brain

Cambridge, 2006/382 pages, 44 line drawings and 4 color figures, hardback.

Edited by Warrick J. Brewer, University of Melbourne; David Castle, University of Melbourne; Christos Pantelis, Sunshine Hospital, Melbourne; Foreward by Peter Doherty.



Olfaction and its relation to mental health is an area of growing interest. Olfaction is of particular interest to specialists seeking a fuller understanding of schizophrenia. The neuropathological, neuropsychological and neuropsychiatric aspects of olfactory function and dysfunction are all covered (drawing on the latest neuroimaging techniques where appropriate), and indications for future research and applications are discussed.

#### Inside you will find:

- Comprehensive coverage of the principles of smell and their association between neural structures and higher-order function.
- Outlines the future mental health possibilities of olfactory dysfunction and directions for research, diagnosis and treatment.

\$120.00



● **Books**

**Learning to Smell**

Donald A. Wilson, Professor of Zoology, University of Oklahoma and Richard J. Stevenson, Professor of Psychology, Macquarie University in Sydney, Australia.

The Johns Hopkins University Press, 2006/328 pages, 26 line drawings and 6 halftones, hardcover.

*An important reference for workers within the field of chemical senses and those interested in sensory processing and perception.*



Written by a neurobiologist and a psychologist, this volume presents a new theory of olfactory perception. Drawing on research in neuroscience, physiology, and ethology, the authors address the fundamental question of how we navigate through a world of chemical encounters and provide a compelling alternative to the "reception-centric" view of olfaction. The major research challenge in olfaction is determining how the brain discriminates one smell from another. Here, the authors hold

that olfaction is generally not a simple physiochemical process, but rather a plastic process that is strongly tied to memory. They find that the traditional approach—which involves identifying how particular features of a chemical stimulus are presented in the olfactory system—to be at odds with historical data and with a growing body of neurobiological and psychological evidence that places primary emphasis on synthetic processing and experiential factors.

**\$80.00**

**Shipping & Handling Fees:** Electrogustometer shipping costs are \$15.00 within the USA and \$50.00 elsewhere. For all other products within the USA, please add 6% to total order; within Canada and Mexico, add 12%; within Western Europe and South America, add 20%, within Eastern Europe, Africa, Australia, Japan and the Far East, add 25%. There is a minimum shipping charge of \$5.00 in USA and \$15.00 elsewhere. Payment must be received on foreign orders before shipment. **Customer is responsible for duty or customs fee.**



Item Description	Qty.	x Price	Total
Smell ID Test™ <i>Indicate Version: (MINIMUM 7 TESTS)</i> <input type="checkbox"/> American <input type="checkbox"/> British <input type="checkbox"/> Dutch <input type="checkbox"/> French <input type="checkbox"/> German <input type="checkbox"/> Italian <input type="checkbox"/> Simplified Chinese <input type="checkbox"/> Traditional Chinese <input type="checkbox"/> Japanese <input type="checkbox"/> Korean <input type="checkbox"/> Portuguese <input type="checkbox"/> Spanish	(7)	\$26.95	
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Smell ID Test™ Scoring Key		\$3.50	
Picture Identification Test™		\$19.95	
Picture Identification Test™ Scoring Key		\$3.50	
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B-SIT Version B (MINIMUM 10 TESTS)	(10)	\$14.95	
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Brief Smell ID Test™ Scoring Key		\$3.50	
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Gas Company Smell Test (MINIMUM 75 TESTS)	(75)	\$1.90	
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Smell Threshold Test™		\$1,295	
Smell Threshold Test™ Refills		\$975	
Smell Threshold Test™ Administration Manual		\$24.50	
Sniff Magnitude Test		\$5,995	
AT Acoustic Rhinometer		\$6,170	
N6 Rhinomanometer		\$5,779	
TR-06 Rion Electrogustometer		\$3,995	
Dual Element Electrodes		\$43	
Single Element Electrodes		\$48	
Electrode Pads (25 count per pack)		\$75	
Handbook of Olfaction and Gustation		\$230	
The Neurology of Olfaction		\$89	
Olfaction and the Brain		\$120	
Learning to Smell		\$80	
*PLEASE NOTE SHIPPING & HANDLING COSTS HERE			
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**sales@sensonics.com**

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