OXFORD
UNIVERSITY
PRESS

ISSN 0379 864X Coden CHSED8

Chemical SENSES

Volume 21
Number 4
August 1996

ECRO AChemS JASTS

TECNODOR®

US Patent 5,457,983
Int'l Patents Pending

Battery-Powered Transportable Unit with Touch Screen
Laboratory Only Model also available

Suprathreshold

Dynamic Dilution Olfactometer with a Referencing Substance

Ranges from threshold to very high intensity...

TECNODOR is an innovative technology which efficiently and objectively allows human subjects to translate their perceptions and evaluations of surrounding odours!

Odour intensity measurement made through an automated Olfactory Matching Method

Speed-up, Improve and Enhance your Research Activities or Odorous Products Development with TECNODOR®!

TECNODOR is an extremely fast odour generator which has the possibility to deliver at high flowrate, with high precision, repeatability and reproducibility, a very large continuous range of concentrations of the referencing odour, throughout special inhalation cones.

TECNODOR is equipped with a pure air controller which allows the nose to reset itself to zero excitation before every odour test. Very little training is required. Easy panel selection. Can also emulate international odour measurement standards.

Applications

Evaluation of psychosensory and olfactive capabilities of the human nose

Organoleptic tests in fragrance and food industries

Research and development for new products or odorous processes or for the synthesis of new odorous substances or materials

Elaboration of olfactometric profiles relatively to pure chemicals or mixtures in view of intensity prediction or standards implementation

Issuing certificates of acceptability of odour levels

Research of analytical indicators of odour nuisance

Odour nuisance monitoring and regulation

Rear View

Standard PC Interfaces (Floppy Disk /Mouse/Keyboard/Parallel Port/VGA)
Liquid 1-Butanol Injection Port
Pure Air & Nitrogen Inlet Ports
Power Supply - Other Inlet/Outlet Ports

Technical Characteristics

Fully automated - Embedded 386PC

High accuracy, precision, repeatability & reproducibility

Rapidity of measurements

User-friendly interface

All operating parameters may be modified by the user

Small panel required (3 to 4 persons)

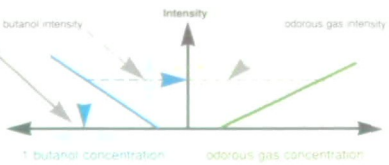
Low operating & maintenance costs

Stainless steel made

TECNODOR varies automatically* the 1-butanol concentration until its intensity is perceived by a human subject as being equal to the intensity of the odorous gas

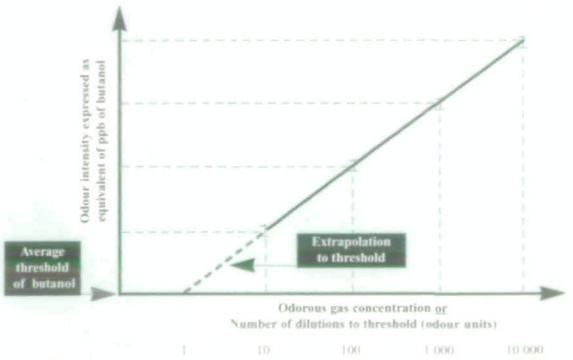
The intensity is expressed as the equivalent of ppb of 1-butanol.

Olfactory Matching Method



Stevens Law representation for both the odorous gas and the referencing substance

*TECNODOR can also be operated semi-automatically or manually.



Olfactometric profile obtained by diluting an odorous gas, using TECNODOR for measuring the odour intensity.

Also available : TECNOGEN - Multi-Channels Odours Generator & Mixer. For Fast Fragrances Development Using a Building Blocks Method & Working from Liquid Bases

TECNOVIR International Inc.

11 645 blvd Gouin, Pierrefonds (Quebec) CANADA H8Y 1Y4
Tel.: (514) 683-0438 Fax: (514) 683-2208
e-mail : tecnovir.int@sympatico.ca

Contact person :
Richard GILBERT

Chemical SENSES

ECRO AChemS JASTS

OXFORD UNIVERSITY PRESS

Published bimonthly by Oxford University Press, Oxford, UK, in association with the European Chemoreception Research organization, the Association for Chemoreception Sciences and the Japanese Association for the Study of Taste and Smell

Contents

C volume 21 number 4 1996

Subscriptions

A subscription to *Chemical Senses* comprises six issues, with an Annual Author and Subject Index. Subscriptions are entered on a calendar year basis only. Prices include postage by surface mail or, for subscribers in the USA and Canada by air freight, or in India, Japan, Australia and New Zealand by Air Speeded Post. Airmail rates are available on request.

Annual subscription rate (Volume 21, 1996):
Institutional rate: UK and Europe, £180; Rest of World, $295.
*Personal rate**: UK and Europe, £90; Rest of World, $145.
Back volume prices and subscription rates for members of AChemS, ECRO and JASTS are also available on request.
**Personal rates apply only when copies are sent to a private address and payment is made by personal cheque or credit card.*

Orders. Orders and payments from, or on behalf of, subscribers in the various geographical areas shown below should be sent to the office indicated.
The Americas: Oxford University Press, 2001 Evans Road, Cary, NC 27513, USA.
Japan: available from the following agents:
Kinokuniya Company Ltd. Journal Department, PO Box 55, Chitose, Tokyo 156, Japan.
Maruzen Company Ltd. Journal Division, PO Box 5050, Tokyo International 100-31, Japan.
Usaco Corporation. 13-12 Shimbashi 1-chome, Minato-ku, Tokyo 105, Japan.
Rest of the World: Oxford University Press, Walton Street, Oxford 0X2 6DP, UK.
Tel: (01865) 267907; telex: 837730 OXPRESG; fax: (01865) 267485.

Advertising. To advertise in *Chemical Senses* contact Oxford University Press (US office) in the Americas or (UK office) in the Rest of the World (see addresses above).

Inquiries for all volumes except the current one and the two previous to it are available from Wim Verbeek, Swets & Zeitlinger, Backsets Department, PO Box 830, 2160 SZ Lisse, Holland and in 16 mm microfilm, 35 mm microfilm and 105 microfiche from University Microfilms International, 300 North Zeeb Road, Ann Arbor, MI 48106-1346. Copies of articles published are also available from UMI.

Chemical Senses (ISSN 0379-864X) is published bimonthly in February, April, June, August, October and December, by Oxford University Press, Oxford, UK. Annual subscription price is US$295.00. *Chemical Senses* is distributed by M.A.I.L. America, 2323 Randolph Avenue, Avenel, New Jersey 07001, USA. Periodical postage paid at Newark, New Jersey, USA and additional entry points.

US POSTMASTER: send address changes to *Chemical Senses*, c/o M.A.I.L. America, 2323 Randolph Avenue, Avenel, New Jersey 07001, USA.

Typeset by Forewords, Oxford, UK and printed by Information Press Ltd, Oxford, UK on Permanent Paper.

Forthcoming Articles

Electrophysiological Evidence for the Broad Distribution of Specific Odorant Receptor Molecules across the Olfactory Organ of the Channel Catfish
Q. Chang and J. Caprio

Are Odorant-binding Proteins Involved in Odorant Discrimination?
R.A. Steinbrecht

Mouth Movements Diminish Taste Adaptation, but Rate of Mouth Movement does not Affect Adaptation
M.J.M. Theunissen and J.H.A. Kroeze

Orthonasal and Retronasal Odorant Identification Based upon Vapor Phase Input from Common Substances
J. Pierce and B.P. Halpern

SHORT COMMUNICATION: Failure to Demonstrate Systematic Changes in Olfactory Perception in the Course of Pregnancy: A Longitudinal Study
M. Laska, B. Koch, B. Heid and R. Hudson

SW.B6-*Soa*^{b} Nontaster Congenic Strains Completed and a Sucrose Octaacetate Congenic Quartet Tested with Other Bitters
D.B. Harder, K.S. Gannon and G. Whitney

Evolution of the Sweetness Receptor in Primates. II. Gustatory Responses of Non-Human Primates to Nine Compounds Known to be Sweet in Man
C. Nofre, J.M. Tinti and D. Glaser

Assessment of Conducting Polymer Odour Sensors for Agricultural Malodour Measurements
K.C. Persaud, S.M. Khaffaf, P.J. Hobbs and R.W. Sneath

Difference in Behavior Between Responses to Forskolin and General Odorants in Turtle Vomeronasal Organ
M. Taniguchi, K. Kanaki and M. Kashiwayanagi