Publications

The editors, well known investigators in the field of lipases, have prepared a welcome update on these enzymes. Coverage is limited to well studied lipases which primarily hydrolyze acylglycerols, cholesteryl esters and wax esters. Phospholipase A_2 and many miscellaneous lipases are omitted. The book contains chapters on: General Features of Lipolysis, Brockman; Lingual Lipase, M. Hamosh; Pancreatic Lipase, Verger; Pancreatic Colipase, Borgstrom and Erlanson-Albertsson; Pancreatic Carboxyl Ester Lipase (Cholesterol Esterase), Rudd and Brockman; Lipases in Milk, Olivecrona and Bengtsson; Lipoprotein Lipase, Smith and Pownall; Hepatic Endothelial Lipase, Kinnunen; Lysosomal Acid Lipase, Fowler and Brown; Adipose Tissue Lipases, Belfrage, Frederickson, Stralfores and Tornquist; Plant Lipases, Huang; Fungal Lipase, Iwai and Tsujisaka, and Cutinase from Fungi and Pollen, Kollattukudy and Bacterial Lipases, Sugiura.

In general, the chapters are comprehensive and well written with sections on the physiological aspects. There are some lapses. Discussions of specificity are lacking with some of the enzymes. For example, the extraordinary specificity of *Geotrichum Candidum* lipase for oleic and linoleic acids is mentioned only in passing, and *Candida cylindracea* is not discussed. The chapter on fungal lipase is limited mostly to the work of the authors, and the chapter on bacterial lipases could have been longer. These are minor criticisms and do not detract from the value of the book. It brings the reader up to date from 1974 when the first book on the subject, Lipolytic Enzymes, was published.

As a co-author with H. Brockerhoff of **Lipolytic Enzymes**, I cannot resist pointing out that the cost of our book was $24.50 as compared to the $136.25 for the one I have reviewed. Is **Lipases** worth the cost? My answer is yes. All who are interested in these fascinating enzymes will need to refer to the book.

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New Publications

Rodd's Chemistry of Carbon Compounds, edited by M.F. Ansell, Elsevier Science Publishing Co., PO Box 1663, Grand Central Station, New York, NY, 10163, 1984, 560 pp., $146.25.

Technology and Product-Mix Forecast—Oils and Fats in 2000 A.D., (based on the proceedings of the 29th Annual Convention of the Oil Technologists' Association of India, Dec. 1983), edited by V.V.S. Mani and V.V.R. Subrahmanyan, Oil Technologists' Association of India, Western Zones, PO Box 9981, Bandra(West), Bombay - 400 050, India, 1984, 82 pp., $10.

The Practice of Frying, PORIM Technology Series no. 9, by Kurt G. Berger, Palm Oil Research Institute of Malaysia, PO Box 10620, Kuala Lumpur, Malaysia, 1984, 34 pp., Malaysian $2.50. Also **Hydrogenation**, PORIM Technology no. 10, by M.S.A. Kheiri, PORIM, 1984, 52 pp., Malaysian $2.50. And **Citric Acid in the Processing of Oils and Fats**, PORIM Technology no. 11, by K.S. Law and K.G. Berger, PORIM, 1984, 32 pp., Malaysian $2.50.

Microcolumn High-Performance Liquid Chromatography, edited by P. Kucera, Elsevier Science Publishers, PO Box 1663, Grand Central Station, New York, NY 10158, 1984, 18 pp., $63.50.

Current Topics in Nutrition and Disease, Vol. 10., Malnutrition: Determinants and Consequences (Proceedings), Alan R. Liss Inc., 150 5th Avenue, New York, NY, 10011, 1984, 512 pp., $96.

Practical Aspects of Gas Chromatography, Mass Spectrometry, by G.M. Message, John Wiley and Sons, Inc., 605 Third Avenue, New York, NY 10158, 1984, 464 pp., $50.

Nutrition, Hypertension and Cardiovascular Disease, by Ronald S. Smith, Lyncean Press, 885 8th Street, Gilroy, CA 95020, 1984, 210 pp., $12.95.

New Products

VACUUM GAUGE

CVC Products has introduced a portable vacuum gauge for measuring pressures in the 1 to 5000 millitorr range. The battery-operated GTC-365 vacuum gauge is housed in a lightweight aluminum case. A battery charging kit is available as an option. The gauge can be operated while recharging. A CVC type GTC-036 thermocouple vacuum sensor comes with the gauge for measurements in the 1 to 5000 millitorr range. A CVC type GTC-004 sensor for readings in the 10 to 1000 millitorr range is available. Contact: CVC Products Inc., PO Box 1886, Rochester, NY 14603.

C18 COLUMN

Burdick & Jackson Laboratories has developed a new C18 column, called the OD5 LC column, for reverse phase liquid chromatography. The column support is spherical 5-micron bonded C18 silica particles which are end-capped and packed into a precision polished tube. The column comes in two lengths: 25 cm for critical separations and 15 cm for routine separations. Finger tight fittings to withstand pressures up to 4,000 psi are provided with each column. Contact: Pat Krieger, Burdick & Jackson Laboratories, 1953 S. Harvey St., Muskegon, MI 49442.

NMR NETWORK

Varian's magNet NMR network technology allows laboratories to run experiments simultaneously with data analysis. With the equipment, one operator can structure files, manage data or write programs and new pulse sequences remotely on the data station while another researcher conducts new NMR experiments. The technology is designed to offer a data transfer rate of 100 Kbytes per second or 800 Kbaud. Contact: Varian Associates, Instrument Group, 220 Humboldt Ct., Sunnyvale, CA 94086.

New Products

OXYGEN ANALYZER

Engineered Systems and Designs' new oxygen analyzer uses a galvanic sensor to measure both per cent oxygen in air and parts per million of dissolved oxygen in aqueous solutions. The portable instrument is calibrated by placing the sensor in air and adjusting the calibrate control until the digital display reads 20.9% concentration. Contact: Robert Spring, Engineered Systems and Designs, 3 S. Tatnall St., Wilmington, DE 19801.

PEPTIDE SYNTHESIZER

Applied Protein Technologies has introduced a microprocessor controlled instrument for automatically synthesizing peptides. Fifteen randomly accessible amino acid reservoirs are featured, with a wide range of reaction vessel sizes available. Contact: Applied Protein Technologies Inc., 103 Brookline St., Cambridge, MA 02139.

CHEMICAL DISPOSAL

Aqua-Tech has designed a disposal method for handling hazardous laboratory chemicals. The method determines the identity, disposal procedure, labeling and packing of aged, spent and unused laboratory chemicals. Contact: Aqua-Tech Inc., 140 S. Park St., Port Washington, WI 53074.

ESTERS IN PRILLED FORM

Cyclo Chemicals Corp. offers two esters, glycerol monostearate and ethylene glycol monostearate, in prilled form, as loose flowing one mm beads. The new form helps eliminate caking problems occurring with flakes and permits faster melting in an oil phase kettle. The products are packaged in 50-lb. corrugated cartons instead of 200-lb. drums. Contact: Cyclo Chemicals Corp., 7500 NW 66th St., Miami, FL 33166.

SUBMERSIBLE PUMP

A new seal-less submersible metering pump is available from Nichols/Zenith Division of Parker Hannifin. The industrial-grade pump is designed to provide accurate pulseless metered flow directly from 55-gallon drums or bulk or storage tanks. It uses no check valves. Contact: Nichols/Zenith, PO Box 71, Waltham, MA 02254.

PORTABLE METER

Nester Instruments' new portable dissolved oxygen/B.O.D. meter is designed for use in wastewater, B.O.D. and other environmental monitoring applications. It features a range of 0-20 ppm and a liquid crystal digital readout, and operates with either a submersible probe for wastewater pond and stream applications or the tapered B.O.D. probe for laboratory use. Contact: Nester Instruments, Division Leeds & Northrup, PO Box 666, Millville, NJ 08332.

MEMORY TIMER

Fisher Scientific's memory countdown timer is designed to automatically return the display to the previously programmed countdown time, to aid in frequently timed operations. Programs start at 23 hours, 59 minutes. The three-button timer allows operators to stop and resume timing during a countdown or clear the program to zero. Contact: Fisher Scientific, 711 Forbes Ave., Pittsburgh, PA 15219.

HANDHELD COMPUTER

SC Applied Technology's "Solution" handheld microcomputer is programmed to calculate molar, normal, per cent and ppm solution and dilution requirements. The unit features keys for data entry including milli and micro prefixes. Contact: SC Applied Technology, PO Box 7185, Columbia, SC 29202.

ALUMINUM CAGE

Supelco's aluminum cage can be used to upgrade packed column systems to wide bore capillary column use. Two capillary column butt connectors connect the ends of a 0.75 mm ID borosilicate glass column to ½ meter lengths of 0.32 mm ID fused silica tubing, to eliminate end straightening and other connection problems associated with glass columns. Contact: Supelco Inc., Supelco Park, Bellefonte, PA 16823-0048.