

## NEW CHEMICALS

### Resins for Amino Acid Analysis

High efficiency chromatographic resins for amino acid analyzers are designated Hi-Rez. Hi-Rez resins are characterized by a firm matrix that resists deformation and a controlled surface activity that is kept within optimum limits. These features allow much faster analyses at lower back pressures and permit extraordinary resolution. A special modification also is offered by converting your present analyzer to a simplified one-column system. Pierce Chemical Co., P.O. Box 117, Rockford, Ill. 61105. 815-968-0747 **501**

### Nmr Shift Reagent

Tris-(dipivalomethanato) europium [ $\text{Eu}(\text{DPM})_3$ ] is a newly available reagent to produce shifts in  $^1\text{H}$  nmr spectroscopy. The spectra of many compounds previously of little value in resolving molecular structure may now be altered to provide considerably new information. Alcohols, amines, ketones, esters, and ethers are amenable to this technique.  $\text{Eu}(\text{DPM})_3$  is quite soluble in  $\text{CCl}_4$  and does not give interfering resonances between  $\delta = 0-16$  ppm when used in the pure state as a shift reagent. The chelate will decompose slowly in the presence of acids. Pierce Chemical Co., P.O. Box 117, Rockford, Ill. 61105. 815-968-0747 **502**

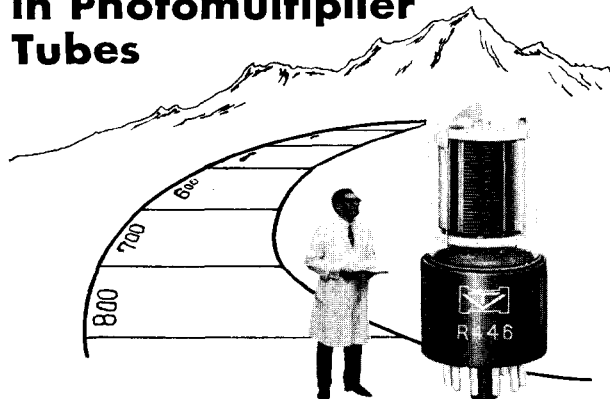
### Clinical Lab Reagents

A new group of diagnostic reagents for enzyme measurements in the clinical laboratory are designated the Statzyme group. They are fully prepared systems for the rapid measurement of four clinically significant enzymes, LDH, GOT, GPT, and CPK. Methods used with these reagents are based on classical lab procedures and involve sensitive reaction-rate measurements made at 340 nm. Worthington Biochemical Corp., Freehold, N. J. 07728. 201-462-3838 **503**

### Scintillator

Thallium chloride, activated with iodides, is a high atomic number scintillator. It possesses good mechanical and thermal shock resistance, high density, and the highest atomic number for scintillation materials known to date. The scintillation efficiency and decay time are sufficient for consideration in high energy counters and spectrometers. Harshaw Chemical Co., 1945 East 97th St., Cleveland, Ohio 44106. 216-721-8300 **504**

## HAMAMATSU Scores a New Milestone in Photomultiplier Tubes



Our NEW side-on type, R446, has multialkali photocathode, hysteresis-free and designed to offer better detection stability in an uncomparable wide spectral response, ranging from 1850 to 8600 Å. These really new characteristics include upgraded sensitivity in the 7000 ~ 8000 Å which enables you to carry out advanced measurement in the red regions. And, is now ready for the highest-level applications in the various fields of photometry.

#### OUR PRODUCTS

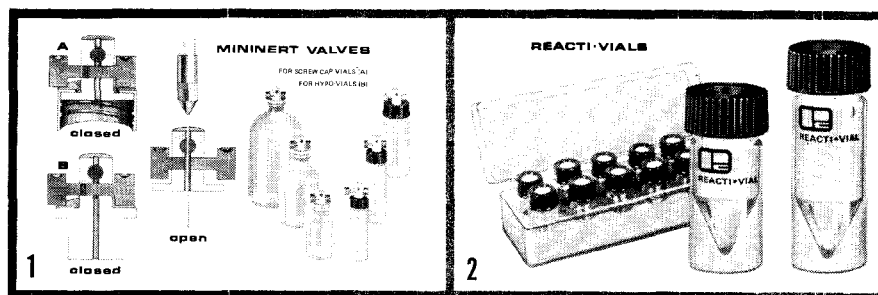
Phototubes • Photomultiplier Tubes • Photoconductive cells • Special Vidicons



### HAMAMATSU TV CO., LTD.

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## INTRIGUING NEW CLOSURE • UNIQUE NEW VIALS

**1** For many years we have looked forward to this announcement. Now we can provide a truly inert closure for bottles and vials that is convenient and practical. The unique new MININERT\* valve provides a positive seal, Teflon\* construction, instant access to contents and complete protection against air and atmospheric moisture during use!

The cutaway views above show the simple operating principles: a push of the finger opens the needle channel, allowing access to contents with a hypodermic needle through the silicone rubber septum. After needle is withdrawn, close valve; then not even the septum comes in contact with the contents, only teflon and glass can touch the material. The Mininert is useful for liquids, gases or solids to be treated with either.

No tools are required for installation. The Hypo-Vial closures merely push in and the screw caps, of course, simply screw on. The valves are durable and reasonable in price.

Mininert valves are available for a number of our vialst including the new 3 and 5 ml. REACTI-VIALS\*, shown above, and may be ordered as follows:

No. 10135 Mininert Valves SC-20 \$45.60/12

**2** Shown above are the new 3 and 5 ml. sizes of our unique and useful REACTI-VIALS\*. Like the smaller Reacti-Vials (0.3 and 1.0 ml.) the new sizes are made of borosilicate glass, the internal cone structure is similar and they are supplied with perforated screw caps and teflon-rubber discs as closures. Other elastomer septa are available† and we are particularly glad to be able to fit them with Mininert valves; thereby vial contents may be confined to a teflon-glass environment but with instant, protected access via hypo syringe. Please order the new Reacti-Vials as follows:

No. 13222 Reacti-Vials, 3 ml. \$27.80 doz.  
No. 13223 Reacti-Vials, 5 ml. \$29.30 doz.

\*Mininert is a trademark of Precision Sampling Corp.  
Teflon is a trademark of E.I. duPont de Nemours, Inc.

Reacti-Vial is a trademark of Pierce Chemical Company

†For further information ask for our "Pierce Previews, July, 1970" and "Pierce Vial List."



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