To Concentrate with S&S Collodion Bags...

The S&S system of collodion bags and apparatus is the simplest and fastest way to concentrate proteins and nucleic acids. The bags are available in MW retentions of 10,000, 25,000 and 75,000, and offer fast, convenient concentration and easy collection of the fraction. Recovery is greater than with other systems.

The collodion bag system can reduce protein solutions to near-zero volumes. For instance, the UH 100/25 bags with a 25,000 MW cutoff are ideal for use in concentration of antibodies, enzymes, blood fractions, and concentration of urine, synovial and cerebral spinal fluids.

Contact your laboratory supply dealer or write for Bulletin M-82. Schleicher & Schuell, Inc., Keene, NH 03431. (603) 352-3810. With S&S, it's in the bag.

NICKTRANSLATION SYSTEM

The world's first. Packaged complete.

Naturally it is more convenient than assembling the components yourself. But even more important is its reliability.

For example, the *E. coli* DNA Polymerase I is cloned in our laboratories to ensure extremely high reproducibility. The dCTP, [α-32P]-is tested for nick translation by our Biological Testing Laboratory. (Typical incorporation is 40%, and we guarantee 1 x 10^6 dpm/µg DNA.) The supercoil PBR322 Plasmid DNA control we use to test each lot of systems is included so you can check yours. Finally, the DNAse I, dNTP mixture, stop-buffer, and sterile deionized water are optimized for compatibility and stability. Approximately twenty assays can be run.

A bulletin describing this exclusive system is yours for the asking.

New England Nuclear

549 Albany Street, Boston, Mass. 02118, Toll-free: 800-225-1572
(In Massachusetts and International: 617-482-9595)

NEN Chemicals GmbH, D-6062 Dreieich, W. Germany, Postfach 401240, Telephone (06103) 85034, Telex 4-17993 NEN D.
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17 AUGUST 1979
The Ohaus Brainweigh 300 costs only $1,195 and gives you a capacity of 300g with a readability of 0.01g. (If you want to find out how much that price is going to save you, just check what our competitors are charging for balances with similar capabilities.)

And we didn’t stop with just economy. We went on to design in features that would be costly “extras” on any other balance on the market—if you could even get them.

Like extended visibility

Stand up; sit down; go to the back of the room. The display on the Ohaus 300 is still easy to read. That’s because the no-glare window with the big, easy-to-read digits is deliberately angled for maximum visibility wherever you are. And that can save a lot of headaches whether you’re in a lab, or on the line or in a classroom.

It tells you when it’s ready—and when you’ve goofed

No more guessing whether the balance has settled down, no more annoying digit flutter. When the “g” appears beside the digits—in 3 seconds or less—it’s your guarantee that the reading is stable.

And if the pan is overloaded or dislodged, you’ll get an error sign in the window.

The 300 is a new generation balance

This new, low-profile balance is only a little larger than an ordinary desk phone. But packed inside is enough advanced technology to make the Ohaus 300 a generation ahead of any other balance on the market. Its state-of-the-art electronic components are almost entirely plug-in for easy service. And there are fewer of them—for better reliability and more dependable performance.

Want a BCD interface now—or later?

You don’t have to worry about it. Unlike other electronic bal-
What's the fairest way of allocating the nation's limited funds to reduce various risks to human life and health? A loaded question, to be sure.

One way of evaluating a given risk-reduction program is to compare estimated costs with expected benefits, both measured in dollars. But this kind of analysis is controversial. For one thing, it requires placing a price on life itself.

Here at the General Motors Research Laboratories, societal analysts have developed a method which avoids that problem completely. It focuses on longevity and rests on the simple logic that since all life inevitably ends, no amount of risk reduction can save lives . . . only lengthen them.

The method involves using the extensive data for all categories of mortality risks and determining the effect on longevity of each category independently. The results can be summarized for each risk by the equation: Average Years Of Longer Life = 0.2 x Annual Deaths Per Million Population.

This equation serves two purposes. First, it provides a perspective of days or years gained from risk-reduction programs. Second, combined with cost estimates, it helps rate the effectiveness of those programs.

To illustrate its utility, we performed a study to compare the cost-effectiveness of several medical, environmental, and safety programs presently under serious consideration. The chart above shows the extreme variation in the costs of extending life by implementing those options.

Through such unbiased comparisons, policymakers can obtain a clearer picture of which programs offer the greatest potential gain for a fixed budget and, thereby, have a better basis for decision.

How to figure the cost of living...a longer life.

General Motors Research Laboratories
Warren, Michigan 48090
Calculating the mean weight or net weight of 48 weighed samples takes time.

On a Sartorius, it takes 1 second.

On other scales or balances, determining the average weight of 48 individually-weighed samples takes time. It may also take a pad and pencil, an adding machine or a calculator.

On a new Sartorius MP Balance, the same determination takes only seconds. After each sample weighing, simply press a single key on the Sartorius keyboard programmer. When all samples have been weighed, press the recall keys for instant display of the mean weight or the number of samples weighed. If printed results are required, simply connect the balance to an inexpensive Sartorius Printer.

The memory capability of the new Sartorius MP Balances permits the determination of net or fill weights by automatically deducting tare or container weights. Automatic mean weight and net weight determinations make these balances ideally suited for the weighing of pharmaceuticals, cosmetics, packaged foods, electronic components, industrial parts, routine packaging and filling, and numerous other applications.

Utilizing built-in microprocessors, Sartorius MP Balances with optional plug-in keyboard programmers are today’s most advanced and versatile electronic weighing instruments. They are available in single range and dual range models with a weighing range/readability from 0-160g/0.001g to 0-30,000g/1.0g.

For literature, just write: Sartorius Balances Division, Brinkmann Instruments, Inc., Cantiague Road, Westbury, N.Y. 11590.

New Sartorius MP Electronic Balances with plug-in keyboard programmers.