



November

November

November

UNIFORMLY LABELLED **CARBON-14 L-AMINO-ACIDS**

PURITY THAT

The 14 uniformly labelled amino-acids listed are prepared to crystalline purity, high specific activity (50% isotopic abundance) and are packaged in the form which recent evidence indicates will reduce radiolytic decomposition to a minimum.

L-Alanine-C14(U) L-Arginine-C14(U)

L-Aspartic acid-C14(U) · L-Glutamic acid-C14

(U) · Glycine-C14(U) · L-Leucine-C14(U)

L-isoLeucine-C14(U) · L-Ibysine-C14(U) · L-Serine-C14(U)

L-Serine-C14(U) · L-Threonine-C14(U) · L-Tyrosine-C14(U) · L-Ty

THE RADIOCHEMICAL CENTRE

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TAS/RE.128



Blackstone Raises the Power Limit . . . **Broadens the Versatility of Ultrasonics** in the Laboratory with A New Series of Probes Providing up to 1 Kw.



output for Cell Disruption, Dispersion, Fluidization. Disintegration, Cleaning and Emulsification. Since 1960, laboratory demand for

Blackstone Ultrasonic Probes has grown daily. Now, Blackstone introduces a new series of probes with a tremendous increase in power ranging from 120 to 1000 watts output. This widens the research and production potential in the disruption of even such difficult cells as yeast and spores.

To accomplish this there is a wide variety of accessories ranging from various size tips to sealed processing chambers and cups with cooling arrangements, for processing pathogenic and non-pathogenic organisms, by batch or continuous flow.

Blackstone probes are noted for their ruggedness. The patented magnetostrictive transducers are practically indestructible. All accessories are 316 stainless steel and may be autoclaved. Operation is at 20KC range and requires no sound shielding.

Blackstone probes are portable, and are provided with support stands and clamps for operation in any position.

If you will write to us outlining your requirements, we will be happy to suggest a suitable probe and accessories; our reply will include full details on this new BP-Series of probes.

Six New Sizes of Bench-Type Heated Tank Ultrasonic Cleaners



The new "HT" Series of cleaners brings a new degree of selectivity to laboratory and production cleaning. The right combination of tank size, power

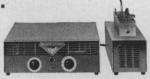
output, solvent or detergent, and temperature can meet most cleaning needs. Both power output and temperature can be controlled (exclusive with Blackstone) to achieve maximum cleaning efficiency without affecting the part to be cleaned.

These new cleaners include high-efficiency lead zirconate titanate transducers, metallurgically joined to the tank for long, maintenance-free life; new compact, solid-state generators; power control from 0 to 100%; uniform cavitation; and round-corner stainless steel tanks and housings for easy cleaning.

The "HT" Series is available in tank capacity to 11 gallons and generators to 1 Kw. output.

Your inquiry, covering type of contaminants and size of parts to be cleaned, is invited; we will include complete data on the HT-Cleaner Series in our reply.

A Low-Cost Batch or Continuous-Flow Cell Disruptor



For routine studies involving cell disruption, Blackstone recommends the U-20. It provides temperature maintenance during processing, is completely autoclavable and is simple to operate.

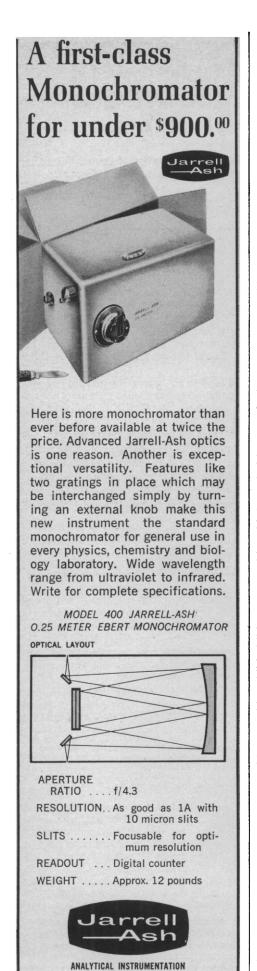
The stainless steel chamber will accept samples up to 150 ml. with a recommended loading of 45 to 70 ml. A 20% suspension of E. Coli requires 12 minute treatment to achieve 98% cell disruption.

A great variety of conditions may be encountered in continuous cell disruption; a brief description of your research problem would be helpful to us in recommending your use of the U-20 equipment.



BLACKSTONE ULTRASONICS, INC.

600 Howard Street . Sheffield, Pennsylvania



JARRELL-ASH COMPANY 530 Lincoln Street, Waltham, Mass. 02154

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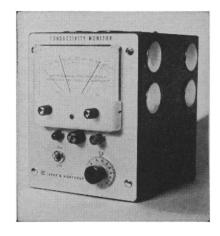
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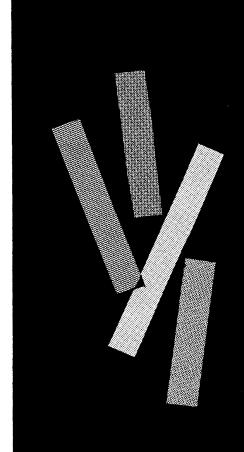
Prices start at \$235 for the Industrial Model; the Portable Model is \$265. Ask for Data Sheet B2.2121 (or B2.2122, describing the High-Purity Water Monitor) from Leeds & Northrup Company, 4926 Stenton Avenue, Philadelphia 44, Pa. or your nearby L&N office.



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1628 SCIENCE, VOL. 147



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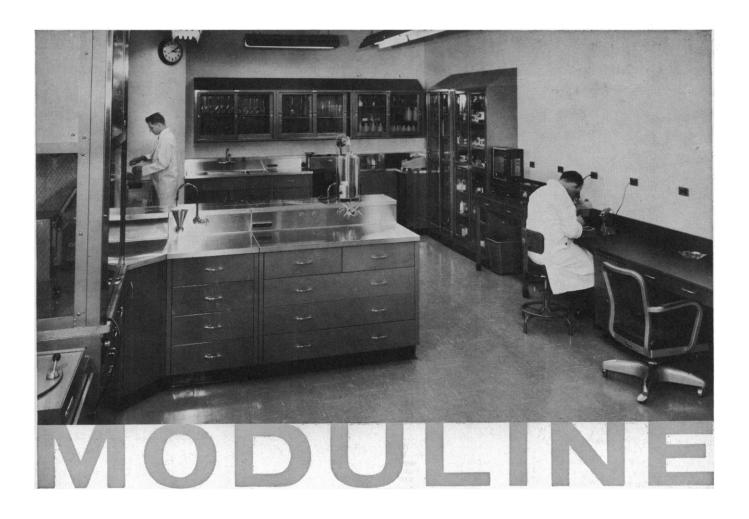
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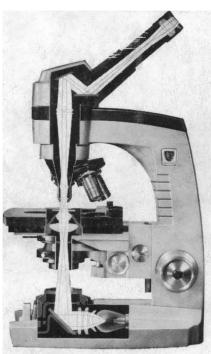
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