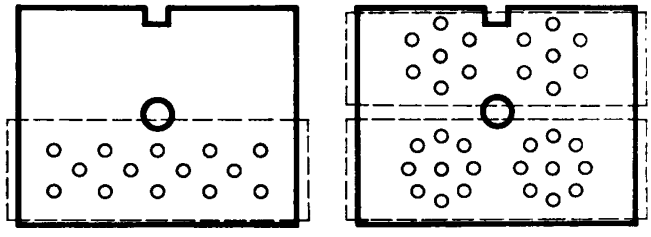
ADVANCES IN INSTRUMENTATION FOR PROTEIN ANALYSIS

MICRO-IMMUNODIFFUSION

—a potent method of resolving complex antigen mixtures



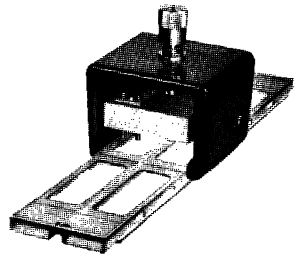
With an immunodiffusion set 6800A-7, Ouchterlony-type double diffusion tests on a **micro-scale**— 7-μl samples—can now be made routinely. Semi-quantitative results can be obtained by making a series of dilutions on a single microslide. This set, which contains two dies producing 3–mmø sample and antiserum wells in the arrangements shown above, has a processing capacity of *288 samples day.* **These dies fit a handy gel punch also delivered with LKB's immunoelectrophoresis equipment.**

The micro-method has the advantage of being more sensitive than the conventional procedure in Petri dishes and of yielding results more quickly *(full incubation period of only 24 hr.)* without appreciable loss of resolution. Identical conditions for the formation of the immuno precipitates are ensured, since the various samples being compared or the serial dilutions are reacted simultaneously on a single microslide. The results, besides being visible at a glance and easy to compare, are thus *more strictly reproducible.* The greatly diminished consumption of antiserum permits a much larger number of analyses to be made from each batch of antiserum. The frequency with which reference standards must be set up is reduced, and the number of directly comparable analyses is increased. The microtechnique is especially suitable for mass investigations for screening and statistical purposes.

Users of LKB's Immunophor equipment for immunoelectrophoresis can easily adapt it for immunodiffusion with a conversion set 6800A-8.

Prime advantages of the microtechnique:

1. More sensitive and rapid than the conventional procedure in Petri dishes—full incubation time of only 24 hours.
2. Simultaneous reaction of up to 16 samples or dilutions on a single microslide ensures more reproducible results which are visible at a glance for easy comparison.
3. Each batch of antiserum lasts many times longer.
4. Larger number of analyses can be compared directly and fewer reference standards need be run.
5. Economy of time and materials suit the micromethod for mass investigations for screening and statistical purposes.



For complete information request data sheet No. 6800P7

LKB-Produkter AB, P.O.B. 12220, Stockholm 12, Sweden

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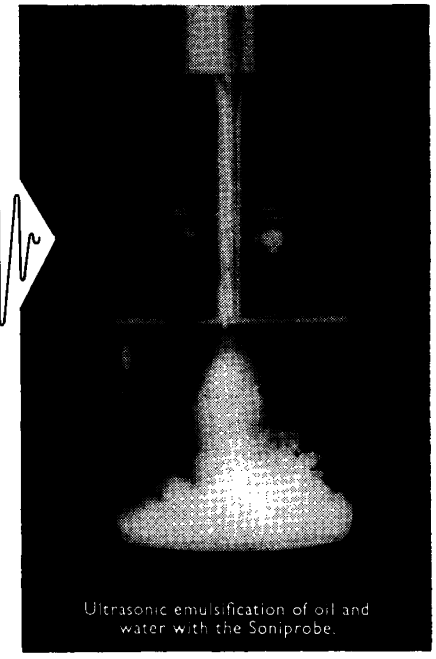
No. 60 P11

high-intensity ultrasonic processing with the SONIPROBE

The Soniprobe is a source of concentrated high-intensity ultrasonic power which can be safely held in the hand. It has a wide variety of uses in the laboratory and new applications are constantly being discovered. It consists of a fully-transistorized power supply, piezo-electric sonic transducer, and a variety of horns and tips to concentrate the energy and transmit it to the material being treated.
Also available:- continuous-flow processing attachments, sealed-atmosphere treatment chambers, high intensity cleaning tanks, etc.



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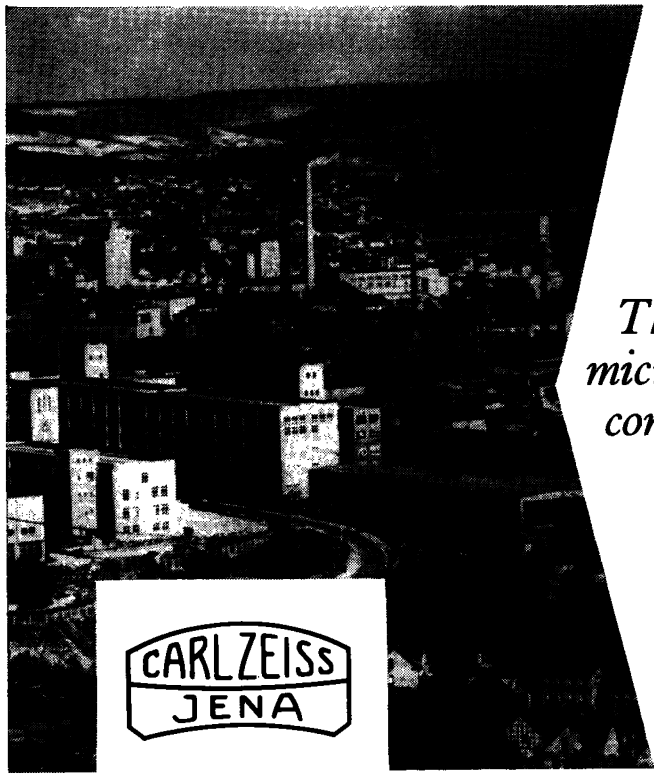

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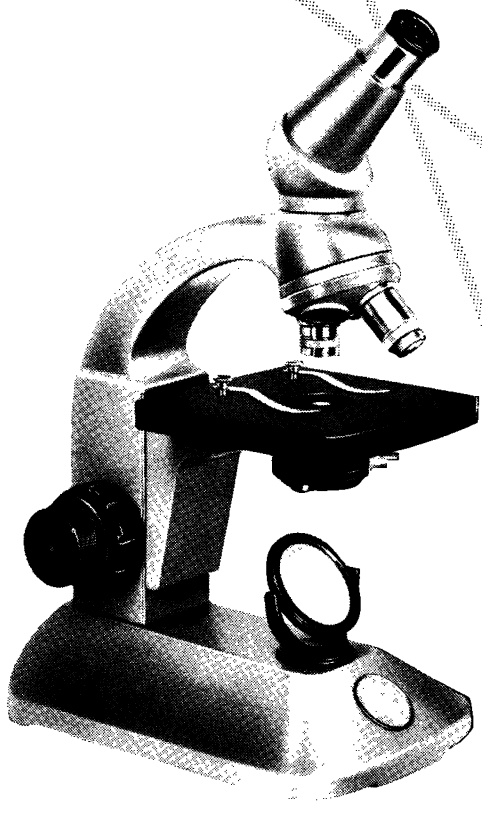

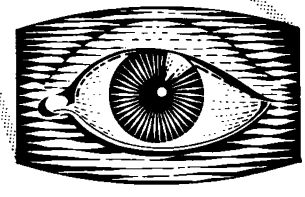

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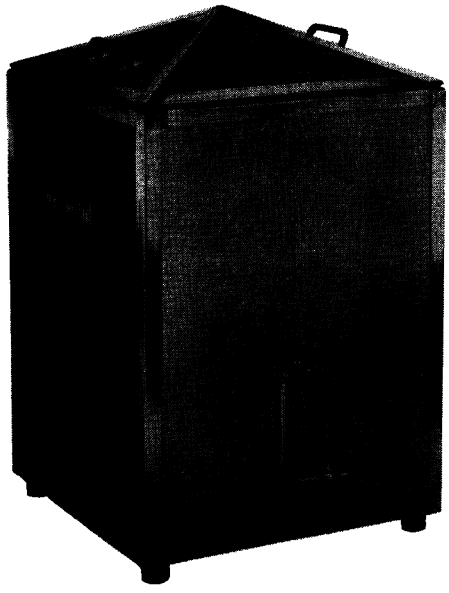

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