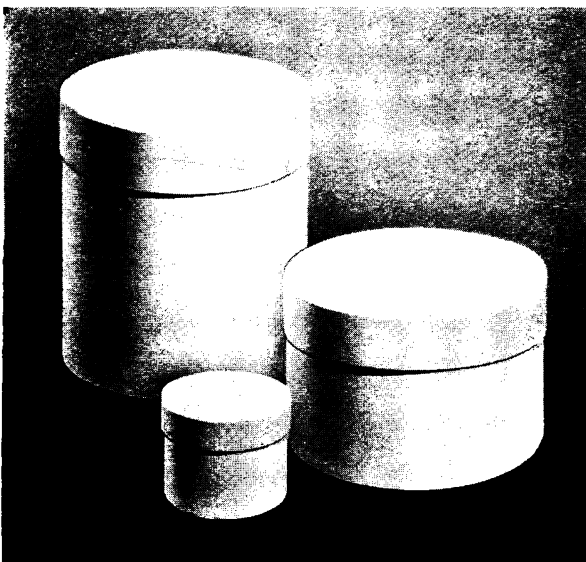


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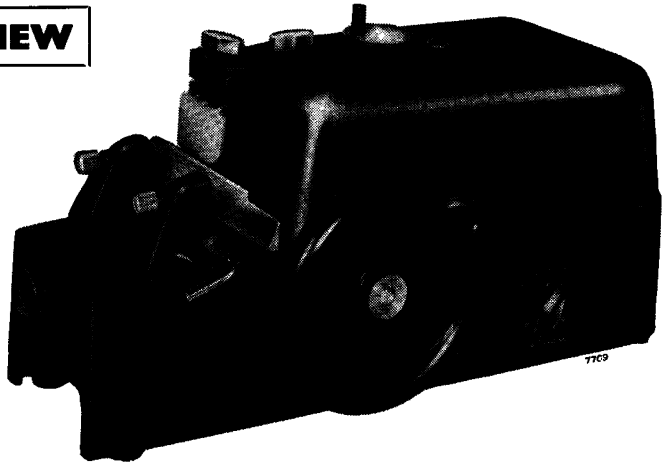
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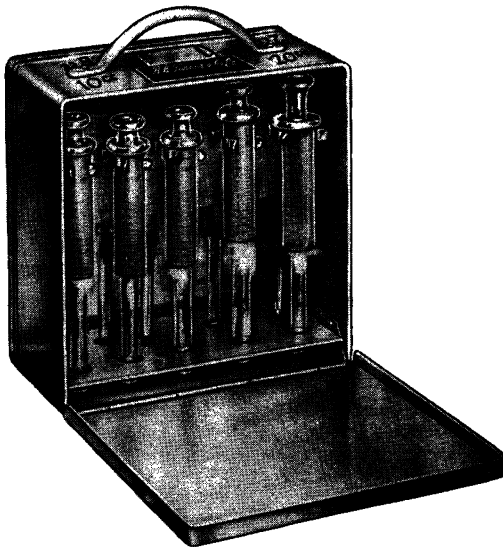
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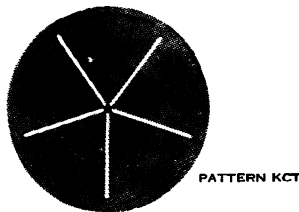
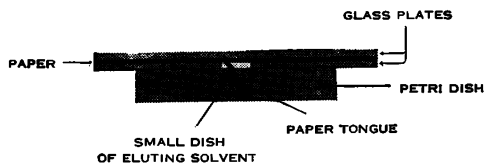
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PROGRESS IN CHROMATOGRAPHY 6



RADIAL SEPARATIONS USING FILTER PAPER DISCS

The paper disc technique, introduced by Rutter, has many advantages, especially for the small laboratory. The apparatus is simple, the zones are sharp and separate quickly; furthermore, the chromatogram can be analysed in sectors. Essential apparatus is a pair of glass plates, a Petri dish and other standard items of laboratory glassware, together with a box of filter paper (Whatman Nos. 1, 4 or 20 are most commonly used). Solvent is fed to the test spot through a filter paper wick at the centre of the paper. The technique, with appropriate solvents and developers, has been used for examining essential oils from plants, dyestuffs and amino-acid mixtures, and for qualitative and semi-quantitative analysis of inorganic substances. The addition of bacterial identification to the scope of paper disc chromatography followed Woiwod's modification of Rutter's apparatus and procedure. Woiwod's technique involves the separation, and identification, of the end products of bacterial protein metabolism. The disc technique has since been used widely for separating other amino-acid mixtures, sugars, dyestuffs, organic acids and inorganic substances.

KAWERAU'S TECHNIQUE

The improved technique of disc chromatography by Kawerau has given the pathologist a simple but exact means of investigating urine for sugars—particularly glucose, lactose and galactose—in cases of pregnancy. Kawerau's technique is in principle the same as Rutter's, but is made more precise by use of the comparatively inexpensive "Kawerau Circular Chromatography Apparatus" and the specially cut "Pattern KCT" paper. The slots radially placed in the paper confer the following advantages. They (i) enable vapour-phase equilibrium to be established speedily throughout the entire apparatus (ii) speed the application of test spots by preventing intermixing (iii) speed testing by allowing five specimens to be examined simultaneously (iv) confine the passage of migrating substances thus ensuring more concentrated zones. The Kawerau technique is used generally for the examination of pathological specimens for amino-acids and sugars, but it could equally well be used in other fields of chromatographic analysis. The "Pattern KCT" paper has been applied with improved results in both the Rutter and Woiwod techniques.

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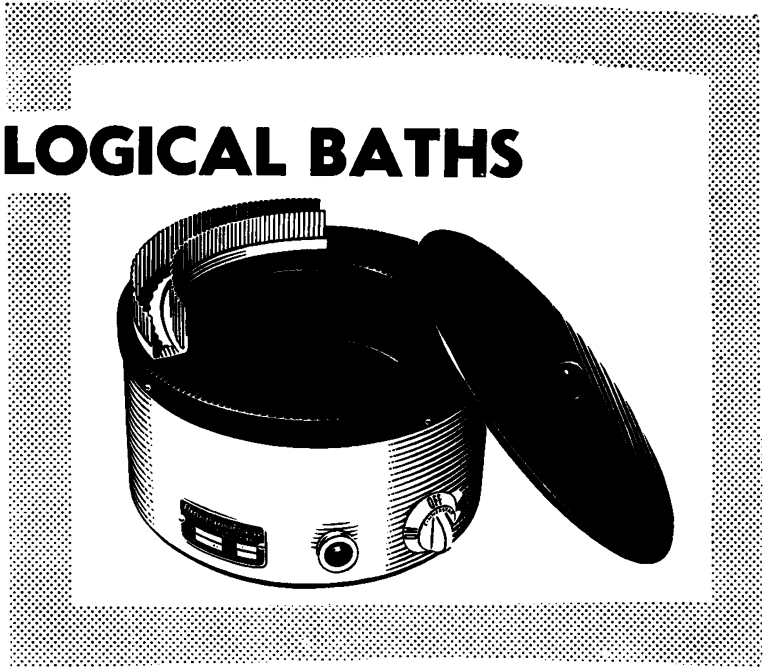
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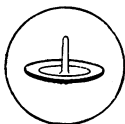
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