

A SLIDE HOLDER FOR AUTORADIOGRAPHY

In this letter a slide holder is described which we have found more convenient and efficient for handling large numbers of slides in the coating method of radioautography than other holders in common use (1,2).

Up to six 3×1 -in. glass slides can be mounted under the metal clips of the hexagonal holder. When loaded the entire unit stands steadily by itself and also fits into a 250-cc beaker appropriate for holding photographic emulsion (120 cc diluted 1:1). The slides are mounted with the tissue side facing in to prevent damage during handling. During loading, dipping, drying and unloading, the holder is easily manipulated by a knobbed handle that is gripped between outstretched fingers. After dipping, the loaded holder can be left standing to dry with the slides draining in a vertical position. As the slides are being loaded into light-tight boxes for the exposure period, the holder can be continuously held in one hand by wedging the knobbed handle between outstretched fingers. This leaves the fingertips free to manipulate slides. It also saves time and decreases the chance of upsetting the holder while repeatedly reaching for it in the dark.

The holder is hexagonal in shape, measuring $1\frac{1}{16}$ in. on a side, and is cut from $\frac{1}{2}$ -in. thick sheets of Lucite (Fig. 1). The slides are held against the base by clips molded from pieces of 18–20-gage stainless steel. Each clip should be bent to allow a gap of slightly over $\frac{1}{16}$ in. to accommodate various slide thicknesses. The clips are attached to the plastic base with $\frac{1}{2}$ -in. stainless steel screws. The handle is made from Lucite dowel; a $\frac{3}{4}$ -in. length is turned with a lathe except for the superior $\frac{1}{16}$ in. and then attached to the hexagonal base with a stainless steel screw.

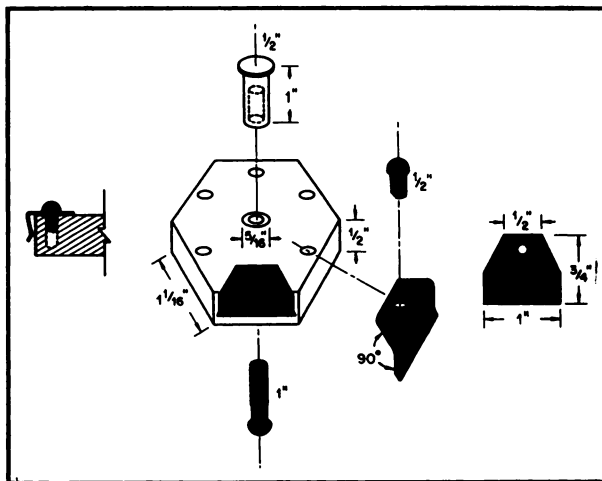


FIG. 1. Holder for glass slides used in radioautography.

This particular device has the following advantages:

1. Any thickness of glass slide will be accommodated.
2. The handle allows for ease and reliability of handling as illustrated.
3. Holders may be easily and inexpensively made.

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ELECTROLYTIC COMPLEXATION OF TECHNETIUM: INHIBITION BY IMPURITIES AND A

RECIPE FOR ROUTINE PREPARATION

In an earlier report (1) an electrolytic method for labeling human serum albumin (HSA) with technetium at constant voltage was described. Certain zirconium species, possibly $ZrOOH^+$ or ZrO^{2+} , formed

by anodic dissolution of zirconium seem to complex with pertechnetate ions. This complex appears to chelate with the protein. The reaction is found to be almost quantitative at optimum conditions.