

Tissue Slicer Instructions

Tissue Slicer – Stadie-Riggs

Introduction:

Routinely used for the preparation of thin, uniform sections of fresh tissue as required for metabolic studies of tissue *in vitro*. See Journal of Biological Chemistry, Vol. 154, No. 3 p. 687; and Vol. 206, No. 2 p 525.

The Tissue is held between the recessed undersurface of the cover plate and the advancing edge of a thin, sharp blade, permitting the cutting of multiple slices with considerable reproducibility and with a minimum of trauma. Sections average 0.5mm in thickness.

Slicer:

Slicer consists of three flat plates of carefully machined and polished transparent methacrylate, each 13mm thick, one extended to form a handle, and a thin blade with 102mm cutting edge and detachable handle of nickel-plated brass, with wing nut fastening blade.

Top Plate:

The top plate is 127mm long x 44mm wide, with a shallow, centrally located recess 32mm diameter x 0.5mm deep in the undersurface, and with threaded holes near the ends for attachment to the middle plate. The middle part, fastened tightly beneath the cover plate by means of two setscrews, is 206mm long, with a circular opening 32mm diameter directly beneath the recess in the cover plate. A slot between adjacent surfaces of the cover plate and the middle plate permits entrance of the knife blade. Circular platform, 31mm diameter x 12mm high, on the base plate fits into the circular opening in the middle plate. Parts can separate readily for cleaning.

Directions for Use:

In use, fresh tissue is placed on the platform of the base plate. The cover plate and middle plate are fastened together and superimposed upon the base plate. The knife blade is introduced into the slot between the cover and middle plates, as shown in illustration. The upper plate is gently pressed on the section and the blade advanced with a sawing motion until the slice of tissue is complete.

Safety:

Remember that the blade is **VERY SHARP** and can cause injury! Be careful when handling and operating the equipment to keep hands away from the blade.

