

Radnoti Tissue Baths



Radnoti Micro Tissue Bath with Built-In Stimulating Electrodes

This 2 ml capacity tissue bath has two opposing platinum electrodes built into the chamber for stimulation of the small tissue preparation. A plain removable oxygenating tube facilitates easy cleaning and replacement.

- For very small tissue samples

Specifications

Chamber:

Working Volume	2 ml (.06 lb)
ID	11 mm (0.43 in)
Depth	35 mm (1.38 in)

Water-Jacket:

OD	25 mm (0.98 in)
Length	45 mm (1.77 in)

Catalog No.

Product

CGS 8097.73	Micro Tissue Bath with Built-In Stimulating Electrodes
CGS 8098.73	Replacement Glass Hooks, pkg. of 6
CGS 8099.73	Replacement Oxygenating Tube without Valve, pkg. of 6
CGS 8100.73	Oxygenating Tube with Teflon Needle Valve, pkg of 1



Radnoti Quiet Tissue Vessel with Built-In Warming Coils

Oxygenation of tissues, especially cardiac muscle, is a requisite in maintaining normal physiological and biochemical responses. However, aeration can introduce mechanical noise due to impinging of gas bubbles on the suspended tissue. This mechanical noise can obscure the force measurements collected from small tissue samples, such as papillary muscles.

This tissue bath virtually eliminates gas bubble interference. This design incorporates many desirable features of the Research Tissue Vessel with Built-In Warming Coil. Utilizing the basic principles from a design by the eminent physiologist J.R. Blinks, the vessel is a dual chambered Utube with a bridge connection midway between the two chambers. One of the two chambers is used for aeration and has a removable aerating tube with Teflon needle valve to permit fine adjustments to the gas flow. The tissue sample is placed in the other chamber.

A circulating current is generated in the liquid by the rising gas bubbles during aeration. This design efficiently separates gas bubbles from the tissue chamber, yet allows the oxygen-enriched perfusate to circulate throughout both chambers. Stimulating electrodes or other apparatus may be inserted into either or both chambers. Superfusate passes through a prewarming coil built into the water jacket and emerges at the desired temperature. An overflow outlet has been added to permit continuous or automated bath washing. The quick release fittings are used to connect the water jacket to a temperature controlled recirculating water bath. The tissue bath is drained from the bottom through a removable nylon Luer lock stopcock. The tissue bath will serve admirably in cases where the researcher must resolve extremely small tissue force measurements or in cases where direct aeration would cause problems. Other uses would be side-by-side comparisons of tissues in the same bath, such as vessel rings with and without endothelium, etc.

Radnoti Quiet Tissue Vessel with Built-In-Warming Coils

Catalog No.	Chamber Volume	Water Jacket Length	OD	ID	ID Oxygenating Side
CGS 8101.73	25 ml	90 mm	75 mm	20 mm	12 mm
CGS 8102.73	50 ml	100 mm	80 mm	25 mm	17 mm