

mate from nervous tissue preparations under a variety of conditions<sup>3-5</sup>. In addition, we have used the apparatus to monitor the release of endogenous somatostatin from tissue slices and synaptosomes (unpublished results). Since the chambers can be used in 2 different modes and the superfusion volume and flow-rate maintained constant, we believe that this apparatus has wide application in the perfusion of preparations from a variety of tissues. Certainly in the study of neurotransmitter release mechanisms, where uptake has been shown to interfere with measurement of the true rate of efflux, this design has proved both versatile and invaluable.

- 1 The authors wish to thank Mr W. Maddison and the Physiology Department workshop for manufacture of this apparatus. Research was supported by the South African Medical Research Council and the Atomic Energy Board of South Africa.
- 2 M. Raiteri, F. Angelini and G. Levi, *Eur. J. Pharmac.* 25, 411 (1974).
- 3 M.J.W. Brennan and R.C. Cantrill, *J. Neurochem.* 31, 1339 (1978).
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