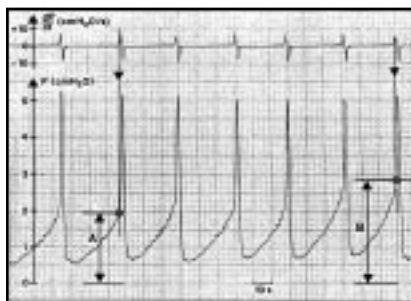


## HSE-Harvard Customized Mayflower Tissue Bath for Gastro-Intestinal Research

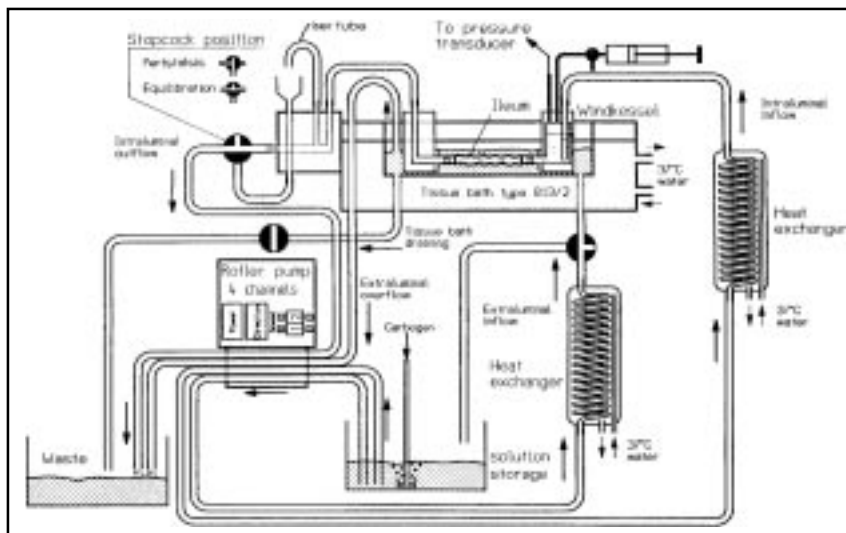


Typical recording of ileum peristaltic reflex

When the pressure response threshold is reached the peristalsis reflex is triggered, resulting in a steep increase in pressure. Peristalsis causes part of the ileum contents to be ejected through the riser tube. At the end of peristalsis the pressure falls to the neighborhood of zero and then restarts its slow rise. Because of the residual content remaining in the ileum the pressure does not fall completely to zero. The residual pressure is no measurement error; because of the varying strength of peristalsis in the course of the experiment it does not remain constant, and it also varies from one experiment to the next because of differences in ileum size.

The reflex trigger pressure is marked on the trace at A and B. To determine the correct pressure threshold it is useful to record the differentiated pressure signal at the same time. The change from slow to the fast pressure rise can be seen more clearly on this trace. The threshold point can then be determined readily by drawing a vertical line from the start of  $dp/dt$  increasing, down to the pressure trace.

In the course of the relative short recording shown in the illustration the threshold has clearly changed from A to B. This increase was induced by a drug administered shortly beforehand.



### Catalog No. Product

#### Mayflower Tissue Bath for Gastro-Intestinal Research

CGS 8693.73	Small Volume Horizontal Tissue Bath, System Mayflower for Gastro-Intestinal Research
CGS 8694.73	Thermostatic Circulator E 103, Bath Volume 3 L
CGS 8695.73	Roller Pump Reglo Analogue ISM 827, 4 Channels, 0.002 to 30 ml/min
<del>CGS 8696.73</del>	Tygon Tubings AME 08, SC0056, pkg. of 12
<del>CGS 8697.73</del>	Tygon Tubings AME 18, SC0066, pkg. of 12
CGS 8698.73	Tygon Tubings AME 24, SC0072, pkg. of 12
<del>CGS 8699.73</del>	Glass Reservoir Double-Walled, Thermostated, 2 L

#### Electronic Measurement and Transducers

CGS 8700.73	Differential Pressure Transducer Validyne Type DP 45-24
CGS 8701.73	Adaptation of the Differential Pressure Transducer
CGS 8702.73	PLUGSYS Basic System Case Type 603
CGS 8703.73	CFBA PLUGSYS Carrier Frequency Bridge Amplifier Module
CGS 8704.73	DIF/S PLUGSYS Differentiator Module Type 664
CGS 8705.73	ROM PLUGSYS Recorder Output Module
CGS 8706.73	Grapttec-Watanabe Oscillographic Thermo Recorder MARK VII-C2
CGS 8707.73	Option on MARK VII and MARK VII-C for 10:1 Chart Speed Reduction

#### Accessories

CGS 8708.73	Double Preparation Dish
<del>CGS 8709.73</del>	Electrical Pressure Calibrator KAL 84 M
CGS 8710.73	Connector Parts, Stop Cocks and Catheters