

# Brandel

## The Automatic Choice for Sample Preparation

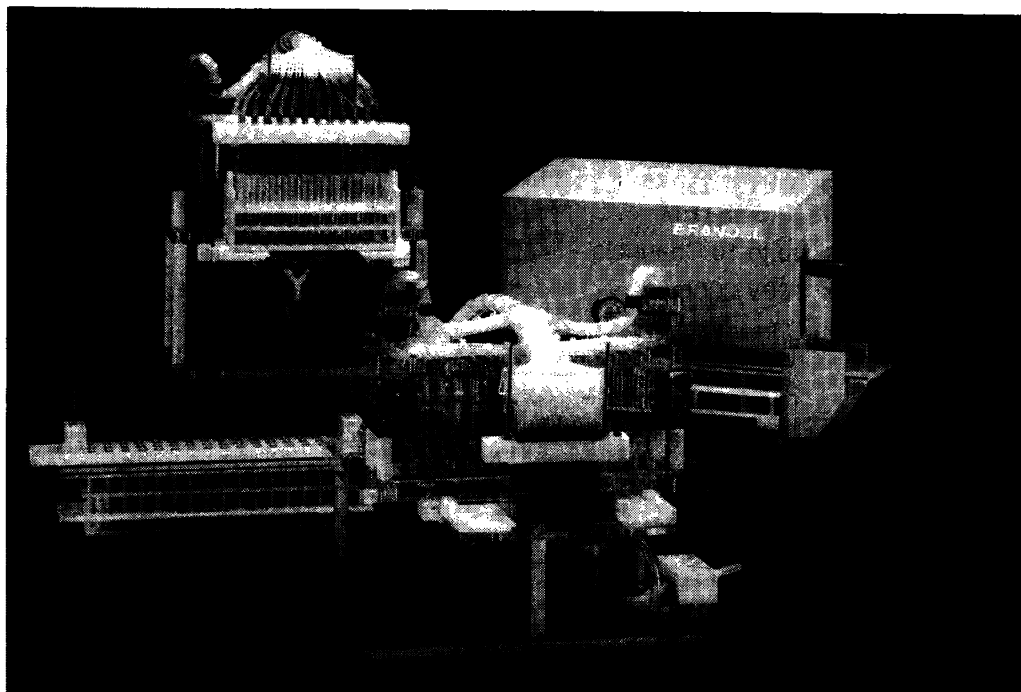
If you prepare cells, membranes and tissue for receptor binding assays, receptor screening and perfusion procedures then there is a Brandel product to make your work quicker, easier and reproducible.

### Receptor Binding

Brandel harvesters are versatile and adaptable for trouble free, receptor binding assays, receptor screening and other procedure.

Harvest from 12 to 96 test tubes, wells or plates simultaneously, and rinse as many times as you like, all under the automatic control of the new, optional Programmable Controller. If you already have a Brandel harvester you will be pleased to know that you can also add the new controller to any Brandel harvester ever made.

After harvesting a Brandel automated Deposit and Dispense



system will punch out the filter discs, deposit them into scintillation vials and dispense precise amounts of cocktail - in less than a minute.

### Simultaneous Perfusion

The Brandel Suprafusion™ 2000 is the first fully automated system for radio-active ligand release studies. Simultaneously perfuse twenty samples with up to six different reagents, in any sequence, and collect up to twenty effluents per sample, all under microcomputer control.

With standard features that include total channel isolation, a water jacketed reaction chamber block, provision for reagent gassing and options for total environment control and multi channel electrical stimulation - what more could you want. A semi-automated model with six or twelve channels perhaps - try the Suprafusion™ 1000 for size.



European Distributor:

**Semat Technical (UK) Ltd.**, St. Albans, AL1 4TA. UK. Tel: (01727) 841414 Fax: 843965

Agents:

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# Digitimer

Research Instrumentation

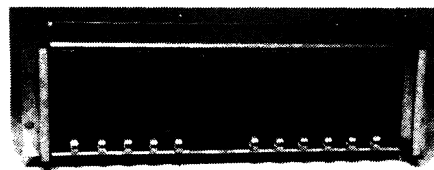
## ISOLATED STIMULATOR DS2



- \* 100V
- \* 50mA
- \* Battery Operated

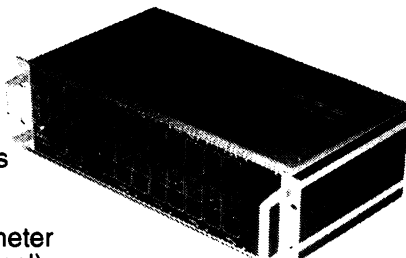
## NEUROLOG MODULAR INSTRUMENTATION

- \* Intra & Extracellular Recording
- \* Whole & Single Cell
- \* Period Generators
- \* Conditioners
- \* AC/DC Amplifiers
- \* Over 50 Modules in the range



## MULTICHANNEL STIMULATOR D330 SYSTEM

- \* up to 10 Channels
- \* 100V 200mA
- \* Current and Voltmeter (D345 2.5A/Channel)



## DIGISTORE

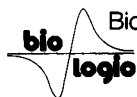
- \* Data Acquisition
- \* Data Storage
- \* Data Analysis



DIGITIMER LIMITED 37 HYDEWAY, WELWYN GARDEN CITY,  
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## new for neuroscience

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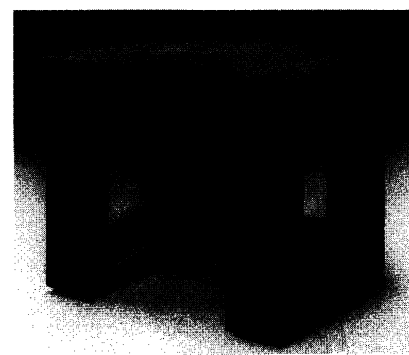


Bio-Logic's DTR-1404 four channel digital tape recorder completing the existing family of two, eight and 16-channel instruments.

A complete range of **INTRACEL** anti-vibration tables available at highly competitive prices ►

We also offer • Nitric Oxide Measurement Systems • Patch and Whole Cell Amplifiers • Rapid Solution Changers • Cell Perfusion Chambers • Stimulators • Micromanipulators • Microforages • Glass Capillaries

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## INTRACEL



### INTRACEL Limited

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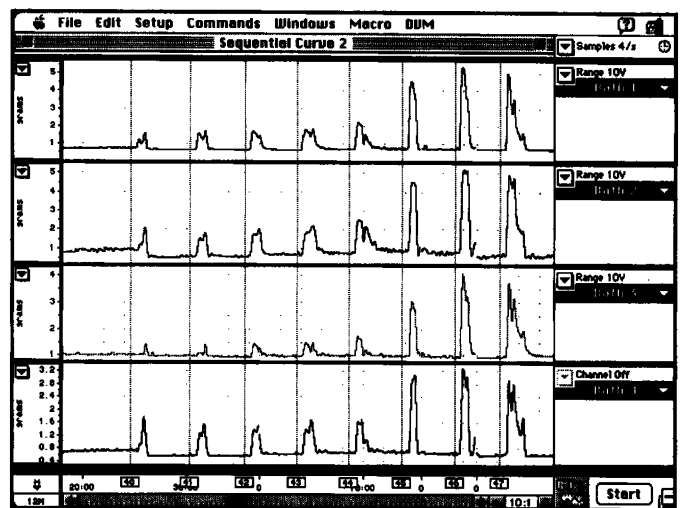
a better choice for neuroscience

# MacLab<sup>®</sup> The Recording Solution for Research And Teaching

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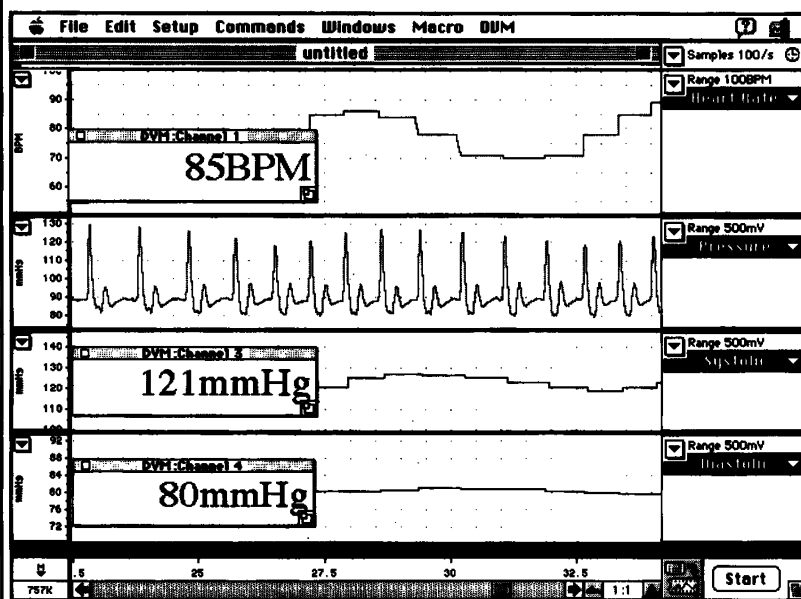
## NEW MacLAB/S

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1 channels at 100,000 Samples/Sec
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## MACLAB IN THE TEACHING LABORATORY

MacLab is a popular and cost effective solution for replacing chart recorders and oscilloscopes in student laboratories. The MacLab software allows experimental protocols to be saved so students find the physical complexity of setting up an experiment is reduced. Taking measurements is both quick and easy. Producing hardcopy output for reports is simple, aswell. Special system prices are available for educational customers.



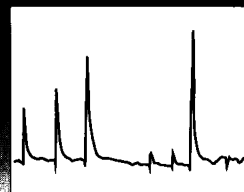
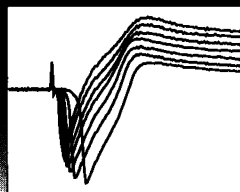
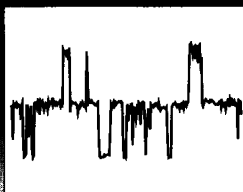
*MacLab is an integrated and cost effective hardware/software solution which is the ideal replacement, or addition to, your Pen Recorder/Polygraph and Storage Oscilloscope. The MacLab system is easy to use and can save you time and money. Systems for research and teaching available in 2, 4 or 8 channels.*

For more information or a demonstration call

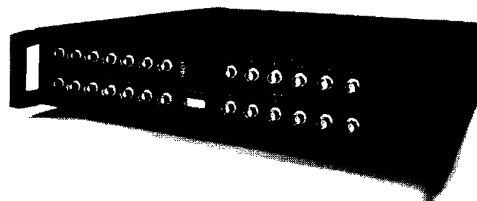
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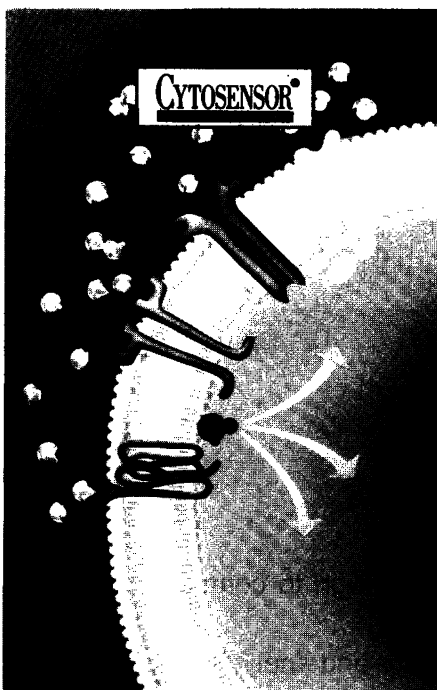
## The Only Comprehensive Assay System for Receptor Signaling.

### THE CYTOSENSOR SYSTEM: FUNCTIONAL RESPONSES IN MINUTES



The Cytosensor Microphysiometer System is the latest tool used for drug discovery and signal transduction research! Using a patented biosensor, the system can monitor the receptor-mediated responses from living cells in minutes, producing functional dose responses in just a few hours. Because of the unique biosensor, receptor activation can be studied even without previous knowledge of the signal transduction pathway. Thus, a single assay system can be used to evaluate a variety of receptor families. Previously time-consuming experiments can be performed quickly and easily, making it possible to obtain EC and IC values in just 4-7 hours, without radioactivity. And novel receptor responses, not seen with other methods, have been observed.

1. *Science* 257, 1906-1912, (1992) 2. *J. NIH Research* 5, 69, (1993)



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## Investigating New Receptor Screens?

.....

### True Receptor Pharmacology?

Cytosensor can use cells transfected with human type receptors.

### Do you need Functional Assays?

Molecular Devices now offers a range of services tailored to your requirements, from molecular biology to pharmacological expression. We can build the cell-based system of your choice, in a fraction of the time it can take utilising traditional assay systems.

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RECEPTORS**



## **D-MED Systems Limited**

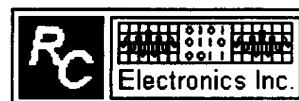
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# Continuous Drug Delivery

## Achieves Constant Plasma Levels



*100, 200 and 2000µl Alzet Pumps*

**Alzet osmotic pumps** allow you to continuously deliver test agents at controlled rates into rats, mice and other laboratory animals. When implanted subcutaneously or intraperitoneally, these pumps serve as a constant source for prolonged drug delivery.

**Short half life?** - Continuous delivery allows the effects of test agents to develop fully because therapeutic levels can be delivered and maintained.

**Delivery routes** can be systemic or localised and an optional brain infusion kit permits drug delivery to stereotactically identified locations. Catheter attachment permits targeted delivery to any location.

**Less stressful** to animals than repeated injection or gavage, Alzet pumps minimize animal handling. During delivery (by osmotic action) animals are untethered and unrestrained. Their unattended operation eliminates the need for repeated night-time or weekend dosing.

**An extensive bibliography** of close to 2000 peer-reviewed scientific papers testifies to the efficacy of Alzet Pumps.

Telephone our Customer Service Department on 0843 823575, or fax 0843 823497 and we will send you full details, including a list of references customized to your research interests.

## RECOMBINANT RECEPTORS

RECEPTOR	SPECIES	EXPRESSION SYSTEM	CAT. NO.
$\alpha_{2A}$ Adrenergic*	Human	Sf9 (insect)	A-213
$\alpha_{2C}$ Adrenergic*	Human	Sf9 (insect)	A-214
$\beta_1$ Adrenergic*	Human	Sf9 (insect)	B-143
$\beta_2$ Adrenergic*	Human	Sf9 (insect)	B-144
Cannabinoid (central)†	Human	HEK-293 (mammal)	C-217
D <sub>1</sub> Dopamine*	Human	Sf9 (insect)	D-178
D <sub>2s</sub> Dopamine*	Human	Sf9 (insect)	D-179
D <sub>2l</sub> Dopamine*	Human	Sf9 (insect)	D-180
D <sub>2s</sub> Dopamine†	Human	A9 (mammal)	D-194
D <sub>3</sub> Dopamine	Human	Mouse fibroblasts (mammal)	D-152
D <sub>3</sub> Dopamine*	Rat	Sf9 (insect)	D-181
D <sub>4.2</sub> Dopamine**	Human	CHO (mammal)	D-177
D <sub>4.2</sub> Dopamine*	Human	Sf9 (insect)	D-190
D <sub>4.2</sub> Dopamine†	Human	CHO (mammal)	D-195
D <sub>4.4</sub> Dopamine†	Human	CHO (mammal)	D-196
D <sub>4.7</sub> Dopamine†	Human	CHO (mammal)	D-197
D <sub>5</sub> Dopamine*	Human	Sf9 (insect)	D-182
M <sub>1</sub> Muscarinic*	Human	Sf9 (insect)	M-174
M <sub>1</sub> Muscarinic†	Human	CHO (mammal)	M-194
M <sub>2</sub> Muscarinic*	Human	Sf9 (insect)	M-175
M <sub>2</sub> Muscarinic†	Human	CHO (mammal)	M-195
M <sub>3</sub> Muscarinic*	Human	Sf9 (insect)	M-176
M <sub>4</sub> Muscarinic*	Human	Sf9 (insect)	M-177
M <sub>5</sub> Muscarinic*	Human	Sf9 (insect)	M-179
$\delta$ -Opioid*	Mouse	Sf9 (insect)	O-116
5-HT <sub>1A</sub> Serotonin*	Human	Sf9 (insect)	S-160
5-HT <sub>6</sub> Serotonin*	Rat	Sf9 (insect)	S-161
5-HT <sub>6</sub> Serotonin†	Rat	HEK-293 (mammal)	S-169
5-HT <sub>7</sub> Serotonin*	Rat	Sf9 (insect)	S-162
5-HT <sub>7</sub> Serotonin†	Rat	HEK-293 (mammal)	S-170

All receptors are sold as aliquots of frozen cell membranes with the exception of D-177 which is sold as a frozen aliquot of transfected CHO cells (K1 strain).

\*Manufactured for RBI by BioSignal Inc. \*\*Manufactured for RBI by Panlabs †Manufactured for RBI by Receptor Biology Inc.

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