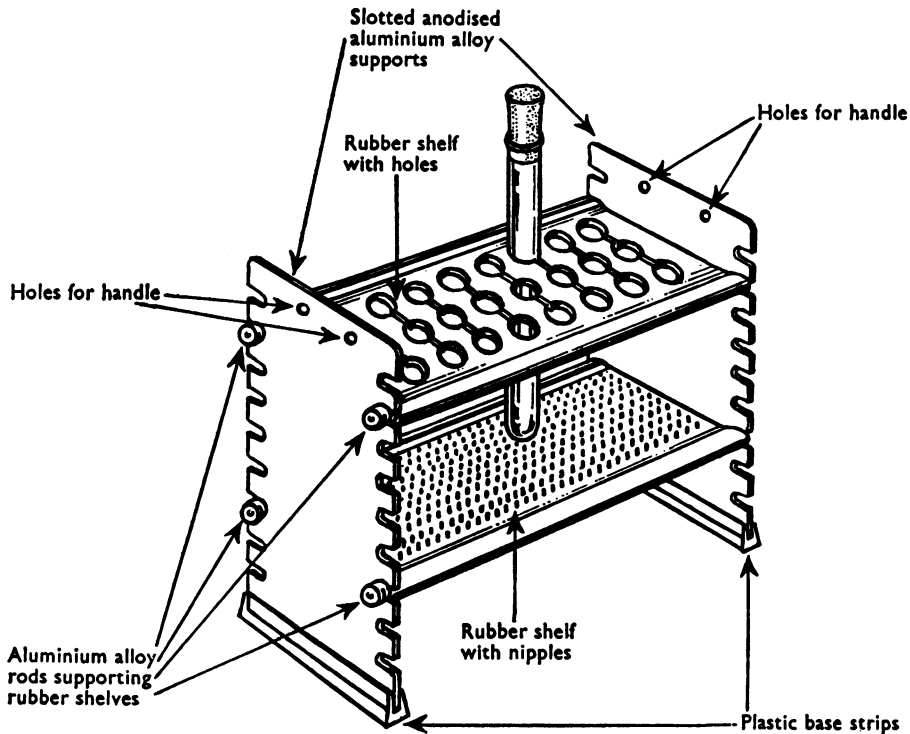


"ESCORUBBER"

# ADJUSTABLE HOLDER FOR TEST TUBES AND WATER BATH RACK

(PROV. PAT.)



Each Holder consists of:

- (1) Two identical slotted anodised aluminium alloy supports.
- (2) One rubber shelf with holes with two grooved aluminium alloy rods for engaging in the open slots of metal supports.
- (3) One rubber shelf with nipples for positioning of test tubes.

● Each Holder is supplied in separate parts packed flat for easy transport and storage.

● The shelves can be fixed in various positions



● The Holders can be assembled in combinations of any required length



● The rubber shelves are supplied with holes of the following approx. dia. when stretched:

Ref. No.	Dia.	Number of holes
AH14	1 1/2"	70
AH38	1 1/4"	40
AH12	1 1/8"	24
AH58	1 1/4"	21
AH34	1 1/8"	12

● PRICES:

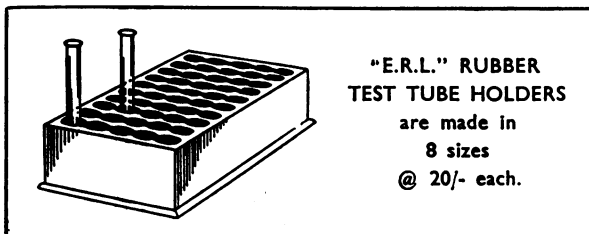
All parts for one complete Holder @ 20/-.

One rubber shelf complete with two rods @ 7/- each.

One metal support @ 3/- each.

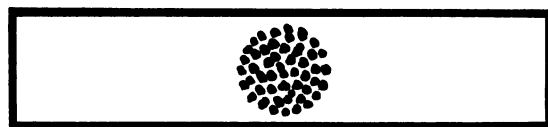
Orders accepted value £1 or over.

Carriage paid in U.K. for orders value £10 or over.

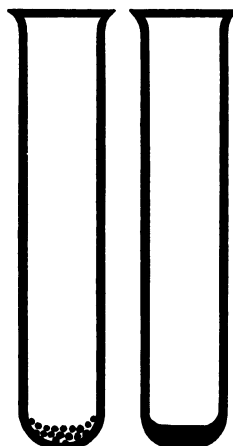


## ESCO (RUBBER) LTD.

Manufacturers of Rubber, Silicone Rubber and Plastic Products  
SEAL WORKS, SEAL STREET, LONDON, E.8



## BLOOD GROUPING AND TYPING SERA



these potent and specific sera give exceptionally fast and accurate results in both slide and test tube technique.

We offer a comprehensive range of outstanding blood grouping and typing sera. Manufactured from pooled sera which has been specially selected for high titre and avidity, they give rapid, crisp reactions that simplify, speed up and add certainty to your reports. The range includes:

### for slide or rapid test tube techniques

Anti-A	Anti-B	Anti-AB	Anti-D	Anti-CD
Anti-DE	Anti-CDE	Anti-C	Anti-E	Anti-c
		Anti-e		

### for saline test tube techniques

Anti-D, Anti-C, Anti-E agglutinating sera.

Other sera and immunohaematological reagents are available including:

Anti-M, Anti-N, Anti-K, Anti-k, Anti-human serum (Coombs),  
Bromelase, Neutrab reagent Blood Group Specific Substances A & B.

## DADE REAGENTS INC.

MIAMI, FLORIDA

*Authorised distributors in the  
United Kingdom:*

Armour Pharmaceutical Company Ltd.,  
Eastbourne, Sussex.

Roland S. Belcher Ltd.,  
Shirley, Solihull, Worcs.

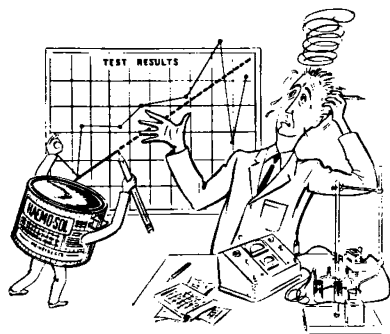
Electricals (Laboratory) Ltd.,  
Blaydon-on-Tyne, Co. Durham.

George T. Gurr, Ltd.,  
London, S.W.6.

Arnold R. Horwell Ltd.,  
London, N.W.2.

Kernick & Son Ltd.,  
Cardiff.

Orme Scientific Ltd.,  
Middleton, Manchester.



## TOO MANY VARIABLES?

*It's time to draw a line. Straighten out your cleaning problems with*

# HAEMO-SOL

There's nothing like Haemo-Sol's unique cleansing power and positive rinsing . . . it's completely safe! No etching! No corroding of metal parts! Immediate Haemo-Sol bath for valuable volumetric and optical equipment prevents soil etching!

Haemo-Sol guarantees clean laboratory glassware and apparatus—

- removes the full range of laboratory soils
- effectively digests protenoid materials . . . other types of polymeric materials
- assures free draining pipets . . . burets
- gives sparkling clear surfaces for quartz and glass absorption cells
- provides chemically clean reaction and titration flasks
- leaves the clean surfaces that are a must for the smooth operation of fractionating columns and other pieces of laboratory equipment.

And, just as important as its unique cleaning power, is Haemo-Sol's *high solubility* and powerful solubilizing action. Haemo-Sol washed glassware *rinses completely clean . . . nothing remains behind* but a chemically clean, free draining glass surface.

Write TODAY  
for Literature



Distributed by  
**ALFRED COX (Surgical) LTD.**

Edward Road  
Coulson, Surrey  
Phone: BYWOOD 2131/2/3



## Sphadex News

Pharmacia - Pioneers in dextran chemistry

# NOW G-200

## A new tool in biochemical and medical research

BIOCHEMICAL and medical research gain a new and simple tool with the introduction of the new Sphadex G-200 type.

It was only recently that Pharmacia, the originators of the Sphadex gel-filtration technique, were able to introduce the G-100 type. Now with G-200 a much greater range of plasma proteins, enzymes, polysaccharides and nucleic acids can be fractionated and purified.

With G-200 the Sphadex range now has exclusion limits from molecular weights 3,500 to about 200,000. At the lower end G-25 separates substances with molecular weights smaller than 3,500 from larger molecules, while G-200 separates substances with molecular weights below 200,000 from those above.

Like G-100, the new G-200 is made in the special "bead" form which greatly reduces flow resistance while giving good resolution. Because of this it is not necessary to provide coarse, medium and fine grades as is done with the G-25, G-50 and G-75 types.

Already there is world wide interest in G-200. If you have technical problems in connection with any gel-filtration or ion exchanger types of Sphadex, Pharmacia will be glad to help you.

### Sphadex

#### Ion Exchangers

DEAE-, CM- and SE Sphadex ion exchangers are being increasingly used in protein, enzyme, hormone and nucleic acid work.

DEAE-Sphadex has an approximate upper limit of pH9. CM- and SE-Sphadex have approximate lower limits of pH6 and pH4 respectively.

### GEL-FILTRATION

Sphadex gel-filtration is a new branch of chromatography. It is only since 1959 that Sphadex has been available. Since then more than 150 papers have been published describing its varied uses. They include, apart from de-salting and normal gel-filtration, adsorption chromatography, concentration work, zone electrophoresis, thin layer chromatography and zone precipitation.

#### Pores

Sphadex is a cross linked dextran forming a three-dimensional network. Increasing cross linkages give smaller "pores" and lower porosity. In contact with water or certain other solvents, a definite degree of cross linkage always takes up a definite amount of solvent.

#### Retarded

In gel-filtration, the solvent in the pores is available to the small solute molecules but, depending on the size of the pores (i.e. the different Sphadex types) the larger molecules are excluded. So, as the solute mixture is eluted through a Sphadex column, the smaller molecules are retarded and thus separated from the larger molecules.

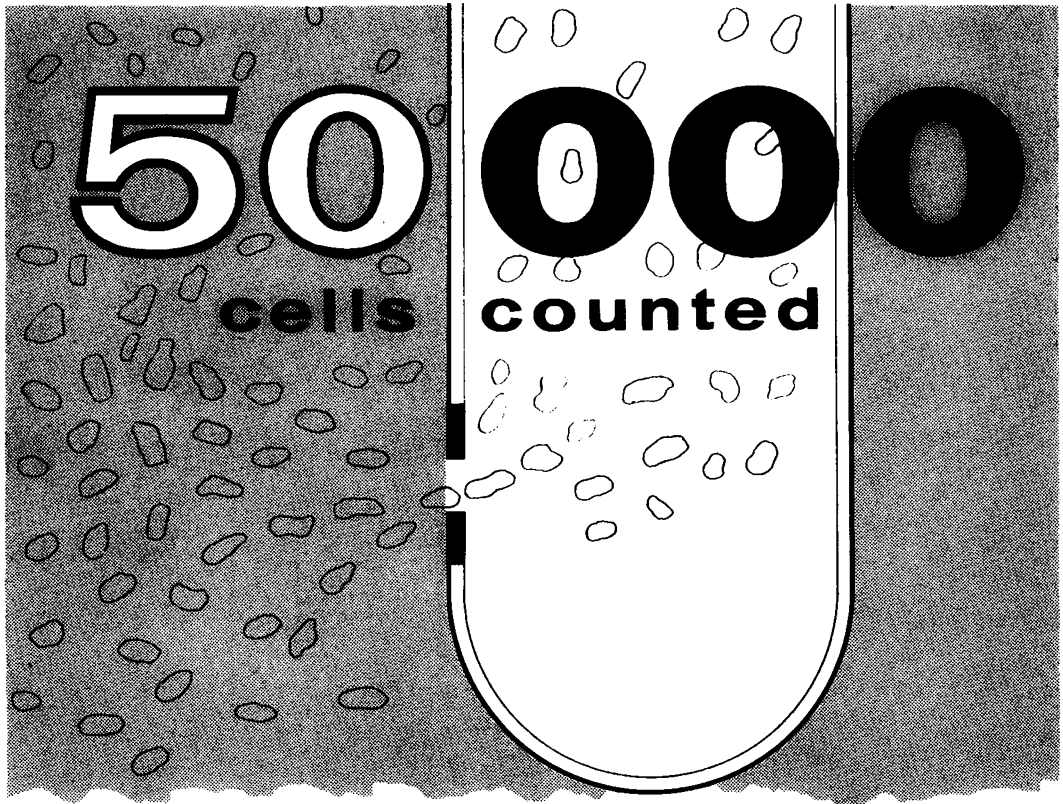
#### TECHNICAL SERVICE

Write for booklets on:  
Sphadex G-25, G-50 and G-75  
Sphadex G-100/G-200  
Sphadex ion exchangers  
A regular reference card system on new Sphadex publications is also available.

**PHARMACIA**  
(GREAT BRITAIN) LTD

Sinclair House, The Avenue  
West Ealing, London, W.13

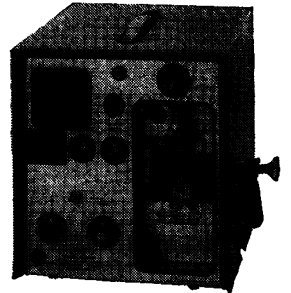
*There are Pharmacia companies and agents throughout the world*



*one by one - one by one - one by one - one by one*

in **15**  
seconds

One by One. That is the secret of the accuracy of this revolutionary blood cell counting and sizing instrument. For routine red and white cell counting, the Coulter Counter Model D will save hours of tedious time and give far greater accuracy than conventional methods.



**ADVANTAGES OF THE COULTER COUNTER**

- 100 times more cells counted than in visual methods, i.e. 50,000 instead of 500 in a 5,000,000 per cu.mm. count.
- Count made in 15 seconds.
- Statistical error of visual counting reduced by a factor of 10.
- Inaccuracies from small samplings, distribution variations in the chamber, and human errors are completely eliminated.
- Size distribution curves obtained in minutes.
- Operated with speed and accuracy by junior technicians.
- Direct savings—the Coulter Counter can pay for itself in less than a year in technician man hours saved.

**SIMPLE OPERATION**

- A small sample of blood (as little as 0.02 ml.) is suitably diluted in saline.
- The beaker is placed on a spring platform so that the orifice tube is immersed in the sample.
- The count is automatically made by turning a tap and resetting the counter switch.
- The count is noted, the beaker removed, and the next sample placed on the stand. No rinsing or cleaning of the orifice is necessary between counts.

*Our technicians will be pleased to demonstrate and discuss The Coulter Counter at a time and place to suit you.*

*Write or telephone:*

**COULTER ELECTRONICS LIMITED**

Ashwell Street, St. Albans, Hertfordshire.

Telephone: St. Albans 50828/9

Scottish Agents: Townson & Mercer Ltd., Edinburgh

