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  - Rat
  - Dog
  - Mouse
  - Monkey
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  - Cytotoxicity
  - Sterility
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Litton Bionetics Laboratory Products
5516 Nicholson Lane, Kensington, Maryland 20795
Telephone: (301) 881-5600
**Monospecific antibodies to human immunoglobulins and immunoglobulin fractions**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>10-MAT</td>
<td>colostrum IgA, specific for $\alpha$-chains</td>
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<td>10-MSP</td>
<td>secretory piece of IgA</td>
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<tr>
<td>10-090</td>
<td>IgG, specific for $\gamma$-chains</td>
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<tr>
<td>10-00G</td>
<td>IgG, specific for Fc fragment</td>
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<tr>
<td>10-091</td>
<td>IgM, specific for $\mu$-chains</td>
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**Monospecific antibodies to Bence Jones proteins**

<table>
<thead>
<tr>
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</thead>
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<td>10-9K2</td>
<td>kappa light chains</td>
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<tr>
<td>10-9K5</td>
<td>kappa light chains</td>
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<tr>
<td>A100</td>
<td>kappa <strong>free</strong> light chains</td>
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<tr>
<td>10-9L2</td>
<td>lambda light chains</td>
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<td>10-9L5</td>
<td>lambda light chains</td>
</tr>
<tr>
<td>A101</td>
<td>lambda <strong>free</strong> light chains</td>
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</tbody>
</table>

**Dako-Immunoglobulins Denmark**

Exclusive U.S. Distributor:
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So tissues thrive and viruses grow unhindered in cultured isolation

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Gentamicin provides in vitro antibiotic activity against a wide variety of Gram-negative and Gram-positive bacteria. Unlike traditional pen-strep, it hits common contaminants such as Pseudomonas and many strains of Mycoplasma, which adversely affect growth of cell cultures and viruses.

No adverse cytotoxic effects/no interference in growth of RNA, DNA viruses

Gentamicin induced no cytotoxic effects on a wide variety of cell types including those of human, monkey, mouse, fish, bovine, and hamster origins, at the recommended concentration. The reagent did not interfere with growth of RNA-containing viruses (rubella, mumps, Newcastle disease virus, rhinovirus, echo-11, etc.) and DNA-containing viruses (herpes simplex, vaccinia). Moreover, Gentamicin was not viricidal against RNA-containing, and DNA-containing viruses at 40X nor was interferon affected at 20X recommended concentration.

Heat and pH stable/ideal for transport, long-term tissue cultures or virus studies

Gentamicin is completely stable at pH 2-10 at 37°C for at least 15 days (see chart); stable to autoclaving and not affected by serum. Opposite this, pen-strep activity is significantly reduced under one or more such conditions. Combined advantages of stability, no effects on replication of viruses, and no influence on or synthesis of interferon make Gentamicin uniquely useful for long-term tissue culture experiments, virus studies, and shipment of clinical specimens and tissue cultures.

References:
Introducing Immuno-Fluor™

Bio-Rad's rapid, quantitative fluorescent immunoassay for IgG, IgA and IgM.

Immuno-Fluor answers the growing need for rapid, precise and reproducible globulin testing in both clinical and research applications. By coupling its Immunobead™ solid phase technology with fluorometric analysis, Bio-Rad has succeeded in creating a general laboratory test for globulins with excellent sensitivity over a wide operating range. Immuno-Fluor allows quantitation of immunoglobulin levels in research samples as well as standard serum—without modification. First, let’s look at its principles:

1. Antibody to human immunoglobulins (A) is covalently coupled to small, hydrophilic beads (O) (Immunobeads) to form a stable immunoabsorbent.

2. Sample is added and all of the immunoglobulin in the sample is bound to the solid phase immunoabsorbent, because the immunoabsorbent is maintained in excess.

3. Fluorescently-labelled monospecific antiserum (F) is added to the mixture and combines with the antigen bound to the solid phase immunoabsorbent. The amount of fluorescently-labelled antibody attached is directly proportional to the amount of antigen bound to the solid phase immunoabsorbent.

4. After separation from unreacted materials the stable complexes that are formed can be quantitated by standard fluorometric techniques. The unique Immunobead support allows fluorescence to be measured directly on stable suspension of the immunoabsorbent.

The use of the solid phase immunoabsorbent allows easy separation of the reactants and resuspension for analytical purposes. The Immuno-Fluor technique is of course comparable to currently available globulin testing techniques.

Immuno-Fluor is rapid.

Only 4 to 6 hours are required to perform Immuno-Fluor determinations from start to finish using common lab instrumentation... fluorometer, centrifuge and pipettes. Immuno-Fluor is completed and off the bench in one working shift. Abnormals can be re-evaluated in the next series without additional purchases or extra time.

Immuno-Fluor is quantitative.

Because the complexes formed during the Immuno-Fluor reaction are very stable, they can be quantitated by standard fluorometric techniques. The reliance on operator interpretation of test results is considerably reduced.

Immuno-Fluor is economical.

Immuno-Fluor's initial cost per test is lower than any other immunoglobulin system, and the cost advantage improves with increased testing requirements. One set of standards will provide a standard curve for 10, 20, 50 or 200 simultaneous tests.

Immuno-Fluor is versatile.

Immuno-Fluor can be performed successfully using a wide variety of fluids, including cerebral-spinal fluid. Continuing research indicates that most fluids, pleural, amniotic and synovial fluids, for example, should be testable without prior preparation. Any standard serum sample and almost any research sample should be testable with little or no pre-preparation... from 1,000 times below to 100 times greater than normal serum globulin levels—and all simultaneously.

Immuno-Fluor is sensitive and precise.

The coupling of fluorometric analysis and solid phase immunoabsorbent technology has yielded a technique with unmatched sensitivity, accuracy and precision.

Immuno-Fluor is here now, tested and ready to go. For complete information contact Bio-Rad at:

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32nd & Griffin Avenue/Richmond, CA 94804
Phone (415) 234-4130
Also in: Rockville Centre, N.Y.; Mississauga, Ontario; London; Milan; Munich; Sao Paulo.
LYOPHILIZED REAGENTS FOR IMMUNOENZYMOLGY

<table>
<thead>
<tr>
<th>Reagent</th>
<th>Produced In</th>
<th>IgG Fraction</th>
<th>Fluorescein Conjugated IgG Fraction</th>
<th>Rhodamine Conjugated IgG Fraction</th>
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<tr>
<td>Anti-Alkaline Phosphatase</td>
<td>Goat</td>
<td>2 ml</td>
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<td>5 ml</td>
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<tr>
<td>Anti-Bovine Trypsin</td>
<td>Rabbit</td>
<td></td>
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<td>Anti-Bovine Trypsinogen</td>
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<tr>
<td>Anti-Catalase</td>
<td>Rabbit</td>
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<tr>
<td>Anti-Cathepsin</td>
<td>Goat or Sheep</td>
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<td></td>
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<tr>
<td>Anti-Glucose Isomerase</td>
<td>Sheep</td>
<td></td>
<td></td>
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<tr>
<td>Anti-Glucose Oxidase</td>
<td>Rabbit</td>
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<tr>
<td>Anti-HLDH</td>
<td>Sheep</td>
<td></td>
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</tr>
<tr>
<td>Anti-Horse Ferritin</td>
<td>Goat or Rabbit</td>
<td></td>
<td></td>
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<tr>
<td>Anti-Human Alpha-1-Antitryptsin</td>
<td>Goat</td>
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<td>Anti-Papain</td>
<td>Rabbit</td>
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<tr>
<td>Anti-Plasminogen</td>
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<tr>
<td>Anti-Peroxidase (Horseradish)</td>
<td>Goat</td>
<td>18.00</td>
<td>35.00</td>
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<td>Anti-Peroxidase (Horseradish)</td>
<td>Guinea Pig</td>
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<td>Anti-Peroxidase (Horseradish)</td>
<td>Rabbit</td>
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<tr>
<td>Anti-Peroxidase (Horseradish)</td>
<td>Rat</td>
<td>28.00</td>
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<td></td>
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<tr>
<td>Anti-Peroxidas (Horseradish)</td>
<td>Sheep</td>
<td>18.00</td>
<td>35.00</td>
<td>55.00</td>
</tr>
</tbody>
</table>

PAP © PEROXIDASE-ANTI-PEROXIDASE for the Sternberger Technique

Produced in Goat, Rabbit or Sheep
1 ml Concentrate ... 50.00

Produced in Guinea Pig or Rat
1 ml Concentrate ... 100.00

| Peroxidase Conjugated Normal Goat IgG | 10 x 0.5 ml |
| Peroxidase Conjugated Normal Guinea Pig IgG | 100.00 |
| Peroxidase Conjugated Normal Human IgG |           |
| Peroxidase Conjugated Normal Rabbit IgG |           |
| Peroxidase Conjugated Normal Sheep IgG |           |

CONJUGATED PEROXIDASE (Horseradish)

| Peroxidase Conjugated Normal Goat IgG | 10 x 0.5 ml |
| Peroxidase Conjugated Normal Guinea Pig IgG | 100.00 |
| Peroxidase Conjugated Normal Human IgG |           |
| Peroxidase Conjugated Normal Rabbit IgG |           |
| Peroxidase Conjugated Normal Sheep IgG |           |

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Catalog No. 3060
ANTISERA TO ANIMAL IMMUNOGLOBULINS
(HEAVY CHAIN AND SUBCLASS SPECIFIC)

These new lyophilized antisera supplement our line of over 175 Veterinary Research Immunochemicals.

<table>
<thead>
<tr>
<th>Antisera to:</th>
<th>Produced in:</th>
<th>Code No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dog IgM</td>
<td>Rabbit</td>
<td>64-371-1</td>
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<tr>
<td>Dog IgA</td>
<td>Rabbit</td>
<td>64-372-1</td>
</tr>
<tr>
<td>Horse IgM</td>
<td>Rabbit</td>
<td>64-380-1</td>
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<tr>
<td>Mouse IgG₁</td>
<td>Rabbit</td>
<td>64-360-1</td>
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<tr>
<td>Mouse IgG₂a</td>
<td>Rabbit</td>
<td>64-361-1</td>
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<td>Mouse IgG₂a</td>
<td>Rabbit</td>
<td>64-362-1</td>
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<td>Mouse IgG₃</td>
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<td>Mouse IgA</td>
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<td>Porcine IgM</td>
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<td>64-390-1</td>
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<td>Rat IgM</td>
<td>Goat</td>
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<tr>
<td>Rat IgE</td>
<td>Sheep</td>
<td>64-352-1</td>
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</tbody>
</table>

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The Role of Products of the Histocompatibility Gene Complex in Immune Responses
Proceedings of an International Conference Held at Brook Lodge, Augusta, Michigan, November 3-7, 1975
edited by DAVID H. KATZ and BARUJ BENACERRAF
1976, 800 pp., $28.00/£15.40
ISBN 0-12-401660-X

Leukocyte Membrane Determinants Regulating Immune Reactivity
Proceedings of the Tenth Leukocyte Culture Conference
edited by VINCENT P. EIJSVOOGL, DIRK ROOS, and WIM P. ZEIJLEMAKER
1976, 800 pp., $26.50/£14.60
ISBN 0-12-233750-6

Transfer Factor
Basic Properties and Clinical Applications
edited by MICHAEL S. ASCHER, A. ARTHUR GOTTLIEB, and CHARLES H. KIRKPATRICK
Transfer Factor contains the formal presentations and discussions of papers presented at the Workshop on Basic Properties and Clinical Applications of Transfer Factor that was held at the United States Army Medical Research Institute for Infectious Disease, Fort Detrick, Maryland on October 5-8, 1975.
SECTION HEADINGS: In Vitro Studies of Transfer Factor I (9 articles). In Vitro Studies of Transfer Factor II (9 articles). Characterization of Transfer Factor (11 articles). Animal Models of Transfer Factor (9 articles). Transfer Factor in Infectious Diseases (8 articles). Transfer Factor in Neoplastic Diseases (3 articles).
1976, in preparation
ISBN 0-12-064650-1

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- *Salmonella cholerae-suis*
- *Salmonella enteritidis*, biovar Paratyphi-A
- *Salmonella enteritidis*, ser Paratyphi-B
- *Salmonella enteritidis*, ser Typhimurium
- *Shigella dysenteriae*
- *Shigella boydii*
- *Shigella flexneri*
- *Shigella sonnei*

Bacto - MinESS Antisera Set II, contains 29 Antisera. It has all of the capabilities of Set I, plus. It is for those laboratories that wish to expand their serological capability with Salmonella.

When an identification cannot be completed with a Bacto - MinESS Set, the culture should be forwarded to a reference laboratory together with the minimal required information regarding the isolate.

---