

# FOR TISSUE CULTURE FROM HYLAND

## NEW! NEWBORN AGAMMA CALF SERUM

An especially processed serum containing exceedingly high content of alpha globulin (37 to 40% of the total protein content) and 7 to 10% beta globulin. Gamma globulin chemically removed by fractionation technics. Carefully processed to preserve all other proteins and growth components. Every lot biologically tested and rigidly assayed by moving boundary electrophoresis before release. Non-toxic. Recommended as a replacement for Fetal Calf Serum in many tissue culture procedures, including preparation of Puck's media.

Supplied as ready-to-use liquid (sterile) or stable, freeze-dried powder (non-sterile). Liquid product available in 100 cc size. Dried product supplied in 7 gm size (equivalent to 100 cc finished serum) or 42 gm size (equivalent to 600 cc finished serum).

## OTHER ADDITIONS

Hyland's rapidly expanding tissue culture line now includes the following components for use in Puck's media: *Puck's Medium N16* (without l-glutamine), 100 cc  
*Puck's Saline F*, 100 cc  
*NCTC 109 Medium*, 100 cc  
and *Fetal Calf Serum, Liquid*, 30 cc and 100 cc.

## CELL ADHERENCE TO GLASS

Comments continue to be received on the high quality of Hyland's regular Calf Serum. It has unusually high content of alpha globulin (28 to 29% of the total protein content). Alpha globulin contains the fetuin component, which is required for growth, and in its presence most cells adhere to glass and assume a flattened appearance. Hyland Calf Serum is supplied in either liquid or freeze-dried form, in 30 cc and 100 cc sizes.

*Write today for a listing* of the complete Hyland Tissue Culture line. In addition to the products already mentioned, we offer a wide selection of liquid and dried products in a practical variety of sizes. Our line embraces Serums and Serous Fluids, Embryo Extracts and Ultrafiltrates, Balanced Salt Solutions, Synthetic Media and special formulations.

The Hyland Tissue Culture Laboratory is always at your service and welcomes your inquiries about special formulas or products you would like added to our line.



**HYLAND LABORATORIES**  
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REAGENTS and MEDIA  
*for*  
**TISSUE CULTURE**  
*and*  
**VIRUS  
PROPAGATION**

These reagents are prepared and standardized to preserve unaltered the properties of the original material and include those commonly employed for the slide, roller tube and flask culture techniques for propagation and study of tissue cells and viruses *in vitro*.

**REAGENTS OF ANIMAL ORIGIN**

***Desiccated and Liquid***

Plasma, Sera and Serous Fluids  
Embryos and Embryo Extracts  
Ultrafiltrates

**REAGENTS, CHEMICALLY DEFINED**

***Dilute and Concentrate***

Synthetic Media—Eagle-HeLa, Eagle L, Scherer, 199, 703 and all formulas  
Balanced Salt Solutions—Earle, Gey, Hanks, Osgood, Simms, Tyrode and all formulas

**ENZYMES**

**INDICATORS**

**AMINO ACIDS**

**HYDROLYSATES**

**MEDIA**

**ENRICHMENTS**

**BIOCHEMICALS**

**CARBOHYDRATES**

*Descriptive Literature sent upon request*

**DIFCO LABORATORIES**

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