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AMPHIBIAN BIOTECH, INC.

P.O. Box 4120  
ANN ARBOR, MICHIGAN 48106

PRESIDENT: GEORGE W. NACE, PH.D.  
VICE-PRESIDENT: CONRAD J. SAMONEK  
SECRETARY-TREASURER: ROBERT J. ROZOF, PH.D.

a.k.a. AMPHITECH, INC.  
313-482-2213

Who we are: Amphibian BioTech, Inc. was started in December, 1982, and is derivative of the Amphibian Facility of the University of Michigan which was organized in 1964. The organizer of the Amphibian Facility is now President of Amphibian BioTech, Inc. but retains his University position. The principals, in addition to the listed officers, include John and Marianne Krasuski. The Green Cross Corporation of Japan owns nonvoting stock.

Our product: The major product of Amphibian BioTech, Inc., is frogs at all stages of development from egg to aged for research and teaching. Laboratory raised species receiving special attention are the African clawed toad, Xenopus laevis, the leopard frog, Rana pipiens, and the oriental firebellied toad, Bombina orientalis. These include three homozygous and six heterozygous, isogenic strains of X. laevis. These breed true and, except for occasional mutations, each animal in a strain is an exact genetic copy of every other. Mutant and tumor (the herpes virus Lucké renal adenocarcinoma) bearing animals are available although a time lag may be involved in providing some of these. Other species of laboratory raised frogs and toads are also in stock or are readily available to us. In addition we carry and can provide live food items needed for the culture of these animals.

Our research and services: Our in-house research and development involves genetics of these frogs and studies of nutrition and food presentation designed to develop suitable nonliving diets for frogs.

We are prepared to supply high quality animals for research by others, to provide consultant service on the use of amphibians, and to conduct in-house contract research. Such research might involve problems of aquatic toxicology and hazard assessment using our aquatic tetrapods (four legged animals) rather than fish. We are prepared to undertake the evaluation of messenger RNA using the frog egg assay, thus freeing the genetic engineer of the need to set up this procedure in an environment where developing and keeping high quality gravid frogs may be a problem. With suitable forewarning we could conduct a wide variety of procedures involving the use of amphibians. This could include enzyme studies, production of antibodies in frogs, etc.

Our people: The President of the company has had long experience in the areas of developmental biology, immunology, animal culture and amphibian nutrition. The Secretary-Treasurer has done research on the role of immunogenetics and second messenger systems in controlling tumorigenesis and tumor-host relationships in mice as well as population genetics of Drosophila melanogaster. Our close association with the University of Michigan gives us access to specialists in many areas of biology and medicine. The other principals bring extensive building trades and animal husbandry experience to our team. Thus we have personnel and resources available to address a wide variety of technical problems involving the use of high grade amphibian material.

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 TEL: 313-482-2213

PRICE LIST

Jan, 1984

for

Academic and Research Patrons

This Price List for academic and research patrons lists products available from Amphitech, Inc. The items listed are available now unless otherwise specified. The designation of time indicates the period of notice required prior to shipping. The symbol SL, means supply limited. Minimum order, \$25. Ask about quantity prices.

A full price list with descriptions of the materials offered is in preparation. Please send us a postcard requesting your copy.

At this time we particularly CALL YOUR ATTENTION to Xenopus, "Tubifex" and MEESA. A new concern has improved the design and is now manufacturing MEESA for us.

WE WELCOME VISITORS

<u>Item</u>	<u>Availability</u>	<u>Price</u>
<u>AMPHIBIANS</u>		
<u>LEOPARD FROGS</u>		
<u>Rana pipiens</u> and other leopard frogs (Lab-reared)		
While not yet available we expect a full line from prehatching to mature animals will be ready for market after mid 1984. This includes animals carrying the Lucké renal adenocarcinoma. Please inquire.		
<u>BULLFROGS</u> ( <u>R. catesbeiana</u> ) 2 wks	4"-5" \$5.75 ea; 5"-6" \$7.50 ea; 6"-7" \$8.25 ea	
<u>OTHER RANIDS</u>		
<u>R. sylvatica</u> , <u>R. clamitans</u> , etc.	Ask	Ask
<u>BOARDING</u> (see below)		Ask
<u>CLAWED TOADS</u> ( <u>Xenopus laevis</u> ) (Lab-bred)		
Embryos (also see Reproduction Kit)		\$ 6.00/100
Tadpoles, Early	\$ 7.50/25; \$ 14.00/50;	26.50/100
" Mid	6.50/6 ; 11.75/12;	22.00/25
" Late	12.00/6 ; 22.80/12;	44.00/25
Juveniles, Post-Met	4.50/3 ; 8.70/6 ;	16.80/12
" Early	5.40/3 ; 10.50/6 ;	20.40/12
" Mid	9.60/3 ; 18.00/6 ;	36.00/12
" Late	6.00/ea; 34.50/6 ;	66.00/12
Artificially sex reversed	Ask	Ask
Adult - not tested for breeding	Male \$ 11.00/ea;	Female \$ 11.00/ea
tested for breeding		Female 14.00/ea
ALBINO - all stages	After March, 1984, SL	price 120% of above
<u>ISOGENIC AND HOMOZYGOUS XENOPUS</u>		
From Kobel and Du Pasquier stock and from Katagiri stock	Ask	Ask
<u>XENOPUS REPRODUCTION KIT</u>		
2 females, 2 males - hormone - instructions		\$ 60.00

ORIENTAL FIRE-BELLIED TOAD (Bombina orientalis)Wild-caught conditioned

Adults sex unspecified, \$ 6.00 ea; sex specified, \$ 9.00 ea

Lab-reared

Embryo	2 wks	\$ 10.00/100
Larvae	6 wks	5.00/10
Juveniles, Early	2 mos	4.00/ea
" , Late	2 mos	6.00/ea
Adults, untested	SL	8.00/ea
" , tested	SL	10.00/ea

Lab-bred Ask, SL 150% of Lab-reared

Color changed Ask add 2.50/animal

BOMBINA REPRODUCTION KIT

2 female, 2 males - hormone - instructions \$ 65.00

ARGENTINE HORNED FROG (Ceratophyrus ornata)

<u>Juveniles</u> , Post-met	2 wks, SL	\$ 15.00/ea;	\$ 87.00/6
" , Early	4 " , SL	\$ 45.00/ea;	\$255.00/6
<u>Large</u>	Ask		Ask

AFRICAN RIDGEBACK (Pyxicephalus adspersus)

<u>Juveniles</u> , Post-met	2 wks, SL	\$ 15.00/ea;	\$ 87.00/6
" , Early	4 " , SL	\$ 45.00/ea;	\$255.00/6
<u>Large</u>	Ask		Ask

We can, on request, supply the following frogs:

BARKING TREE FROG (Hyla gratiosa), FLYING TREE FROG (Rhacophorus leucomystax), GREEN TREE FROG (Hyla cinerea), RED-EYED TREE FROG (Pachymedusa dacnicolor), WHITE'S TREE FROG (Hyla caerulea),  
AUSTRALIAN GIANT GREEN TREE FROG (Hyla infrafrenata) and others.

CRIMSON-SPOTTED NEWT (Notophthalmus viridescens) (Summer and Fall only)

Adults 2 wks, SL \$ 1.50 ea; \$ 17.00/12

OTHER URODELES Ask Ask

LIVE FOODCRICKETS (Acheta domestica)

Patron may specify Hatchling, Small, Medium, or Adult. The price applies to all sizes.

\$ 6.00/100; \$ 25.00/500; \$ 42.00/1000; \$350.00/10,000

"TUBIFEX" WORMS (Lumbriculus variegatus)

1 to 3 lb/order	\$ 10.00/lb
4 to 7 lb/order	9.75/lb
8 to 10 lb/order	9.25/lb
above 10 lb/order	9.00/lb

MEAL WORMS (Tenebrio)

\$ 0.85/100; \$ 4.05/500; \$ 8.00/1000; \$ 75/10,000

PRODUCTS AND SERVICESTISSUES AND ANIMAL PRODUCTS

Ask

Ask

BOARDING

For 6 or more animals/group

Large (e.g. Bufo marinus, bullfrogs, axolotls)

0.08/day/animal

Medium (e.g. R. pipiens, R. clamitans)

0.04/day/animal

Juveniles (e.g. R. pipiens up to 12 mo of age)

0.02/day/animal

For individual housing

Ask

PATHOLOGY AND NECROPSY EXAMINATIONS

\$125/animal

INFORMATION CONTROL

For demographic data

\$ 10/item

For labeling animal (bracelet)

5/animal

EQUIPMENT, OTHER ANIMALSAND SERVICESMEESA (Michigan Environmental Enclosure for Small Animals)

Modular, sold in units of 2, up to 24 enclosures per rack.  
Ask for literature.

2 MEESA Enclosure Unit

4 wks

\$ 395.00

24 MEESA Enclosure Unit

4 wks

4,740.00

OTHER EQUIPMENT

Ask

OTHER ANIMALS

Our world-wide contacts may make it possible to supply your needs  
for amphibians not listed above.

Ask

Ask

SERVICES

Services range from consulting on the care and use of amphibians to  
conducting special procedures or research on contract.

Ask