Publié dans : «DISEASE DIAGNOSIS AND CONTROL IN NORTH AMERICAN MARINE AQUACULTURE» J SINDERMANN, Elsevier Scientific Publ. Co., 329 p »

16

3.2.3 BACTERIAL NECROSIS OF MACROBRACHIUM LARVAE

J. F. Le Bitoux Centre Oceanologique du Pacifique Vairao, Tahiti

COMMON NAME:	Bacterial necrosis
SPECIES AFFECTED:	Fresh-water shrimp, <u>Macrobrachium</u> rosenbergii.
GROSS SIGNS:	Necrosis of appendages, especially the antennae and the abdominal appendages.
CAUSE:	Unknown, but probably involves several different genera of bacteria.
METHOD OF DIAGNOSIS:	Microscopic examination.



Fig.37 . Early stage of bacterial necrosis of Macrobrachium larvae.

BACTERIAL NECROSIS OF FRESH-WATER SHRIMP LARVAE

LIFE HISTORY, BIOLOGY, EPIZOOTIOLOGY:	Increase in total number of bacteria in the rearing tank is favored by crowding conditions (100 larvae/liter), and by fresh food distributed to the larvae.
EFFECT ON HOST:	The attack of the bacteria can be local- ized to one appendage or two and then, rapidly kill the larvae. Sudden changes in the temperature of the rearing water or manipulation of larvae will lower their resistance. If an antibiotic treatment is done, regeneration of the diseased appendage will signal recovery of the larvae.
TREATMENT :	Different antibiotics have given good results: Penicillin-streptomycin: 2 MUI, 2 g/m ³ Erythromycin : 0,65 ppm Furanace : 7 ppm
PREVENTIVE MEASURES:	Careful daily examination permits a pre- ventive antiobic treatment if it is necessary. Reduce thermal and physical stress to the larvae.
KNOWN GEOGRAPHIC DISTRIBUTION:	Thus far reported only from culture operations in French Polynesia.
NOTE :	This section was prepared by Dr. J. F. Le Bitoux, Centre Oceanologique du Pacifique, CNEXO, Vairao, Tahiti, uti- lizing still unpublished results of studies underway there.

KEY REFERENCES:

Aquacop. 1976. First observations on the diseases of crustacean culture in a tropical area. (In Preparation).

195