

*Xiphophorus birchmanni*



Female(Cam)



Male (++)

Strain code: birchII

Phenotypes scored: Macromelanophore pattern: carbomaculatus (Cam) and wild-type (+).

Introduction:

This stock arrived at the Stock Center from Dr. Manfred Scharl's Lab in Wurzburg, Germany on July 3, 2001. The line was originally collected from Rio Axtlapezco, Mexico, in March of 2000. The fish express the macromelanophore pattern termed carbomaculatus (Cam) which is also seen in *X. cortezi*. Cam consists of large, black pigment cells generally located on the body and may extend into the dorsal fin.

Sexing:

Fish in this stock should be sexed at about 1.5 to 2 months of age and reach full sexual maturity by 5 to 6 months of age.

Scoring:

Males and females should be scored for Cam and + in this stock. This is generally done by placing mature fish in an observation dish and observing these patterns with the unaided eye.

Maintenance:

Six matings using reciprocal crosses are set up for each generation in this stock. Four of these matings are designed to maintain Cam in a heterozygous state by crossing a fish that is expressing Cam to a fish that is not. Two of the matings are designed to ensure the perpetuation of wild-type fish in the event of a miss-scored fish in a mating, by mating two + fish together. The mating scheme will look as follows.

Four Cam/+ Matings:

Or      Cam female      x      + male  
         + female      x      Cam male

Two +/- Matings:

         + female      x      + male

Stock source:

Dr. Manfred Scharl, University of Wurzburg, Germany, 7/3/01.