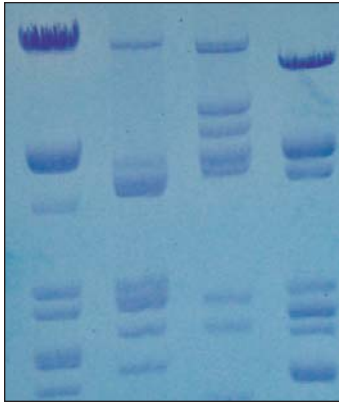


MolecuLab 107 & 108

Advanced DNA Fingerprinting Simulation: A Whooping Crane Paternity Test



Results from MolecuLab 108

The Whooping Crane is one of the most endangered birds in the world.

Conservation biologists use DNA fingerprinting techniques to determine paternity with captive breeding flocks and maximize genetic variability.



MolecuLabs 107 and 108 offer an alternative to the “crime scene” DNA Fingerprinting scenario. These kits link molecular biology by illustrating the use of DNA Fingerprinting techniques in the preservation of endangered Whooping Cranes.

Each team will receive four tubes containing DNA predigested with different restriction enzymes. After gel electrophoresis, the separated DNA fragments are stained, either with ethidium bromide (107) or methylene blue (108), for paternity analysis.

Designed for six teams of students, the laboratory portion of this exercise requires two 50-minute class periods.

Ordering Information:

MolecuLab™ 107 (Ethidium Bromide staining)
E1-2007\$110

Replacement Biologicals, 107
E1-2207 (shaded in blue below)\$69

MolecuLab™ 108 (Methylene Blue staining)
E1-2008\$110

Replacement Biologicals, 108
E1-2208 (shaded in blue below)\$69

MolecuLab™ 107 or 108 Includes:

- Dehydrated DNA samples for gel electrophoresis, 6-tubes of each: Dam, Offspring, Sire 1, Sire 2
- 1X gel loading dye
- Agarose powder
- TBE buffer powder
- Ethidium bromide (107 only) stain
- Methylene Blue (108 only) stain
- Ethidium bromide disposal kit (107 only)
- Staining trays
- Gloves
- One CD containing student protocols and instructor’s manual