

CALCEIN

INAD #10-987 Calcein (SE-MARK™) Immersion

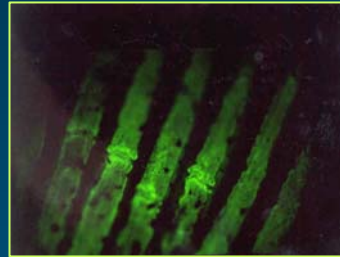
USFWS – AADAP Program

Sponsor: Western Chemical Inc.

Product: SE-MARK™



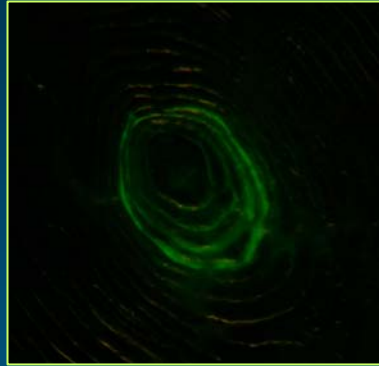
BACKGROUND



Calcein

- fluorescent chromophore that binds to calcium
- used in ophthalmology in humans
- used in bone growth and formation studies
- more recently been used in fish as a marking compound

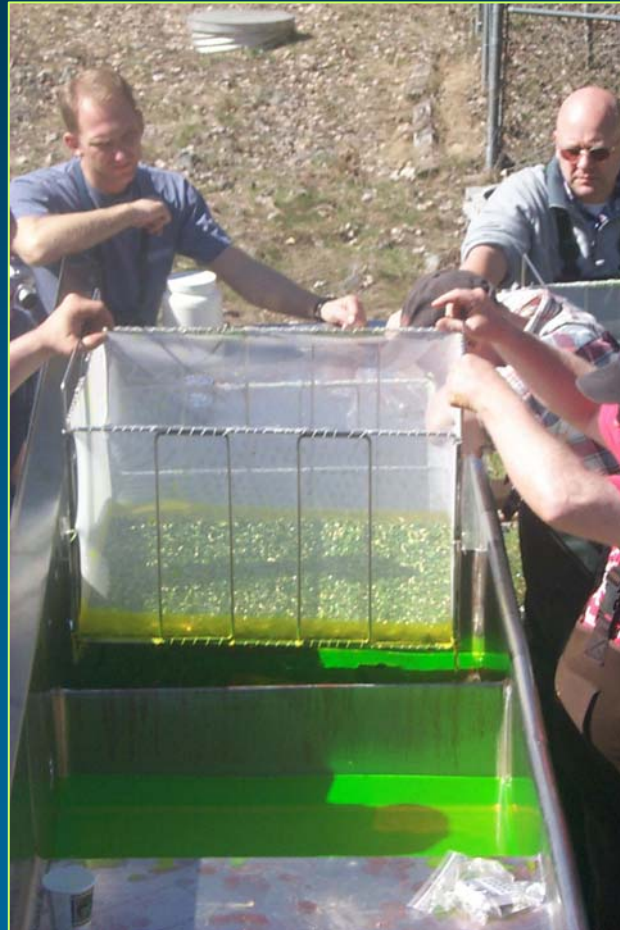
BACKGROUND



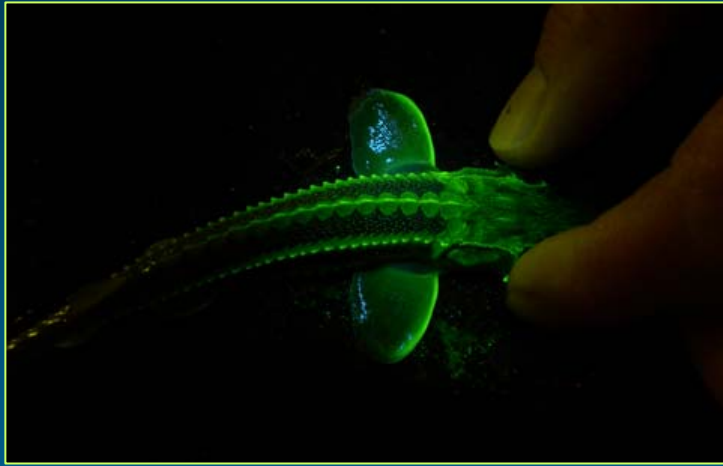
Calcein

- chemically binds with calcium phosphate in tissues such as otoliths, fin rays, scutes, and scales
- results in non-lethally detectable fluorescent marks
- able to achieve double-marks

IMMERSION



SE-MARK™ DETECTOR



- ◆ Wave length = 495 nm
- ◆ Barrier filter = 520 nm

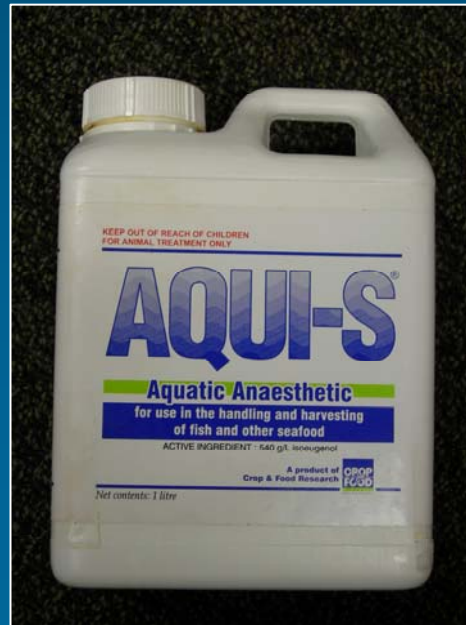
AQUI-S[®] Aquatic Anesthetic

INAD #10-541 AQUI-S[®] (Isoeugenol)

USFWS – AADAP Program

Sponsor: AQUI-S New Zealand, Ltd.

Product: AQUI-S[®] Aquatic Anesthetic



AQUI-S[®] Aquatic Anesthetic

 Fish anesthetic developed by
AQUIS New Zealand, Ltd.

 Synthetic
– (54% isoeugenol)

 Approved in New Zealand, Australia, & Chile for use on food fish
(no withdrawal period required)

 Candidate for FDA approval as “zero-withdrawal” anesthetic

