

## Josh - 12/8/11 Fish Extraction Testing

### Purpose:

Test fish extraction methods

Sample	Source	Preparation
1	Smoked Salmon	5 ul slice, lacerated with pipette tip
2	Smoked Salmon	Toothpick stab
3	Smoked Salmon w/ Ketchup	5 ul slice, lacerated with pipette tip, some ketchup included
4	Smoked Salmon w/ Ketchup	Toothpick stab, stabbed through ketchup
5	Stuffed Scallops	5 ul slice, lacerated with pipette tip
6	Stuffed Scallops	Toothpick stab
7	Shrimp	5 ul slice, lacerated with pipette tip
8	Shrimp	Toothpick stab
9	Negative control	Toothpick stab
10	Smoked Salmon	Toothpick stab 5 times

### DNA Extraction

Use 75 ul Epicentre BuccalAmp buffer in PCR tube, no vortexing, incubate 65 C 6 minutes, heat inactivate 98 C 2 minutes.

For toothpick stab samples, swirl toothpick end in 75 ul buffer a few times. Toothpick samples stabbed once unless noted. Toothpick was cylindrical with 1 cm cone on one end.

### PCR Test - FISHCO1L/HBCm13 Primers

#### Reaction:

1 uL template  
2 uL 10 uM primer mix  
17 uL ddH<sub>2</sub>O  
20 uL Bioneer tube

#### PCR Program:

Initial Denaturing: 5 min @ 95 C

30 cycles:

Denature: 30 secs @ 95 C

Anneal: 1 min @ 65 C

Extend: 1 min @ 72 C

Final Extension: 5 min @ 72 C

*Gel:* 1.5% agarose TAE, 100 bp ladder

*Sequencing:*

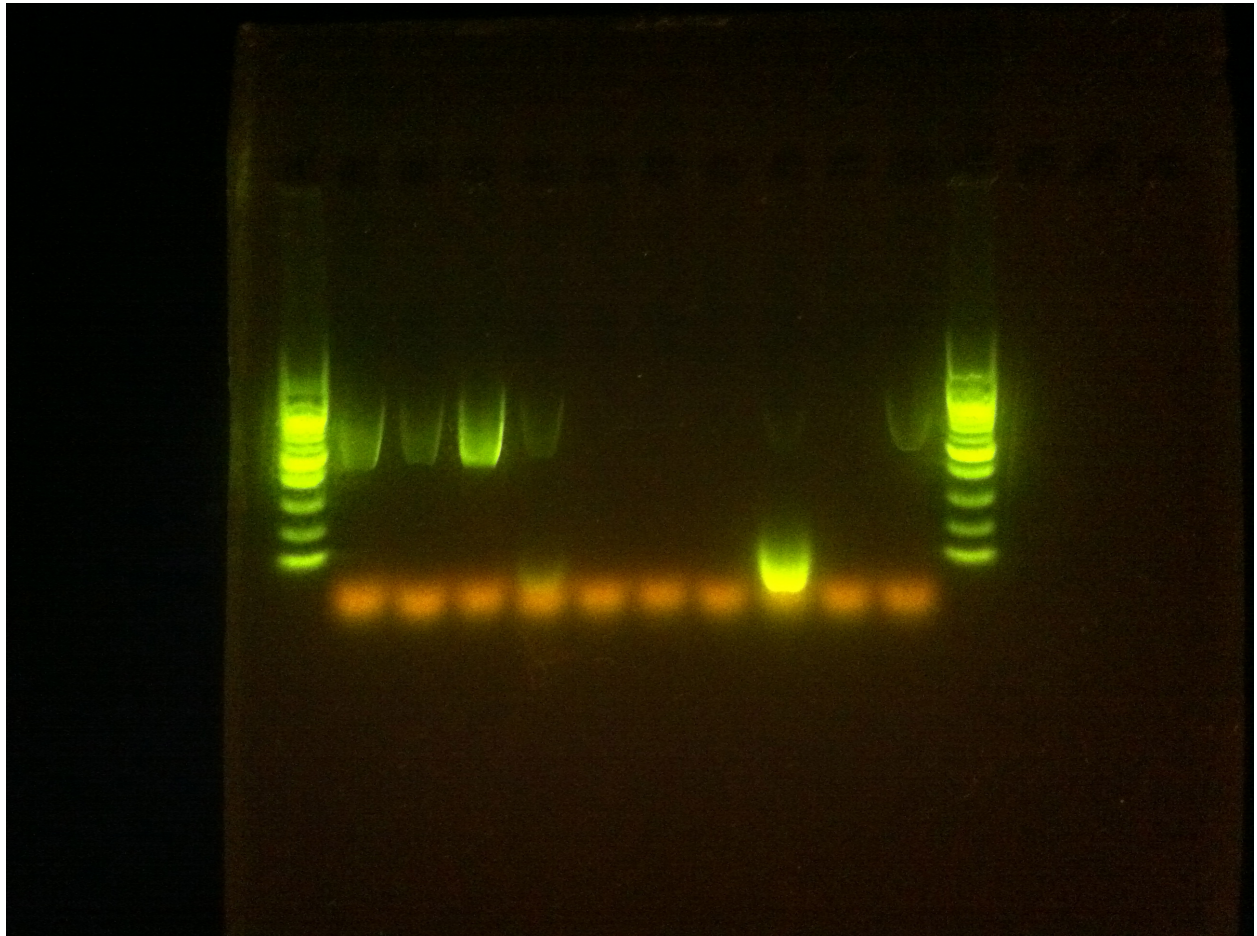
Primer: M13F (CACGACGTTGTAAAACGAC)

Amplicon length: 743

*Identification:* BOLD species level

Gel/Sequencing Results:

Sample	Gel Result	Operon Tube	Sequencing Result	Species ID
1	Good			
2	Ok, weaker amplification			
3	Good			
4	Ok, weaker amplification			
5	No Amplification			
6	No Amplification			
7	No Amplification			
8	Bad, Tiny Amplification, tons of primer dimers			
9	No Amplification			
10	Ok			



**Follow-up**

Ran 10 more cycles on sample #10, re-ran on same gel (lane 13) to see if sample intensity improved: