



PCR Results: CTSA T741, T742, T743 (Mt-12-85)

Date Reported: 09-19-2012

MEMORANDUM

Date: September 19, 2012

To: Dr. Clyde S. Tamaru
Aquaculture Specialist
College of Tropical Agriculture and Human Resources
Department of Molecular Biosciences and Bioengineering
1955 East-West Road, Ag. Science 218
Honolulu, HI 96822

Phone: 808-342-1063

email: ctamaru@hawaii.edu

Subject: The 63rd Report for the CTSA Project: PCR test results for the three tissue sample received on September 14, 2012.

The three vial samples of ethanol preserved fish tissue were processed by standard PCR test methods and the extracted DNA was assayed using TRLO primers and a fish tissue quality control primer designated CO-I.

The TRLO PCR test was negative for the three samples and the CO-I PCR test was positive for two of the three samples. The results indicated TRLO DNA was not present in the tissue sample vials, and that the extracted DNA was of suitable quality to support a reliable PCR test assay for TRLO in at least two of the three vials.

Photographs of the PCR gels for samples are appended for your records.

Separate results table and gel photos are also included for your use to report the test outcome for your client's sample.

Thank you and best regards.

Moana Technologies, LLC, Halawa Research Station
99-1255 Waiua Place #4, Aiea Hawaii 96701
phone: (808)-488-6554/fax: (808)-488-4502



PCR Results: CTSA T741, T742, T743 (Mt-12-85)

Date Reported: 09-19-2012

PCR Results:

Vial #	MTI#	TRLO	CO-I (fish DNA)
T741	CTSA #T741	-	-
T742	CTSA #T742	-	P
T743	CTSA #T743 (MTI-12-85)	-	VFT

Note: VFT = very faint band

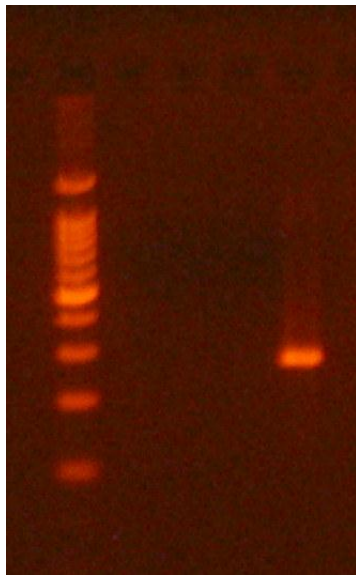
*Moana Technologies, LLC, Halawa Research Station
99-1255 Waiua Place #4, Aiea Hawaii 96701
phone: (808)-488-6554/fax: (808)-488-4502*



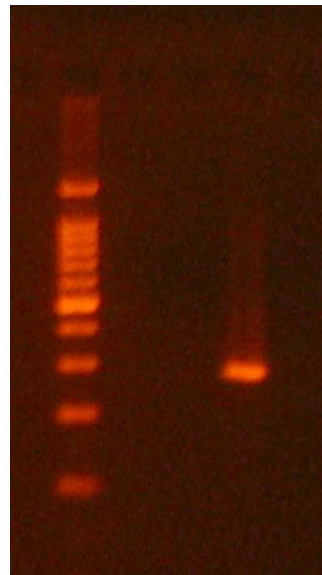
PCR Results: CTSA T741, T742, T743 (Mt-12-85)

Date Reported: 09-19-2012

Primers: TRLO F/R



Lane 1: Ladder
Lane 2: vial T741
Lane 3: vial T742
Lane 4: no template
Lane 5: +TRLO



Lane 1: Ladder
Lane 2: vial T743
Lane 3: no template
Lane 4: +TRLO

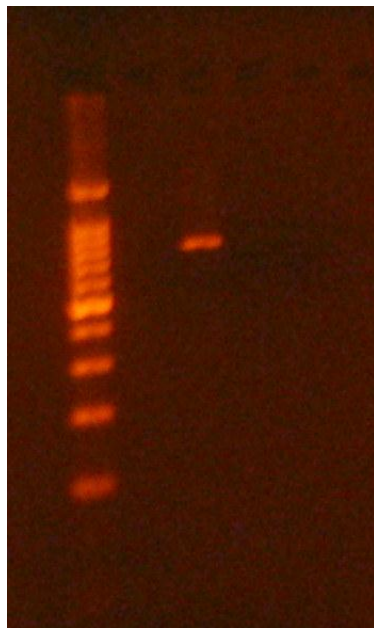
Moana Technologies, LLC, Halawa Research Station
99-1255 Waiua Place #4, Aiea Hawaii 96701
phone: (808)-488-6554/fax: (808)-488-4502



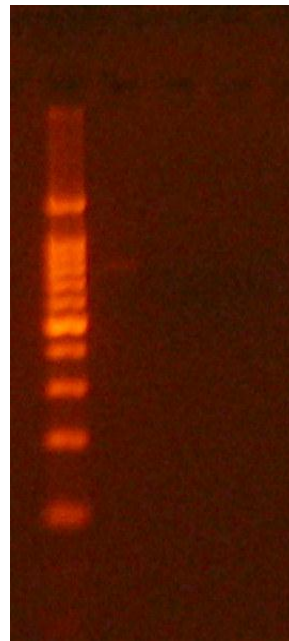
PCR Results: CTSA T741, T742, T743 (Mt-12-85)

Date Reported: 09-19-2012

Primers: CO-I (fish DNA)



Lane 1: Ladder
Lane 2: vial T741
Lane 3: vial T742
Lane 4: no template
Lane 5: no template



Lane 1: Ladder
Lane 2: vial T743
Lane 3: no template
Lane 4: no template

Moana Technologies, LLC, Halawa Research Station
99-1255 Waiua Place #4, Aiea Hawaii 96701
phone: (808)-488-6554/fax: (808)-488-4502



PCR Results: CTSA T741, T742, T743 (Mt-12-85)

Date Reported: 09-19-2012

PCR Results:

Vial #	MTI#	TRLO	CO-1 (fish DNA)
T743	CTSA #T743 (MTI-12-85)	-	VFT

Note: VFT = very faint band

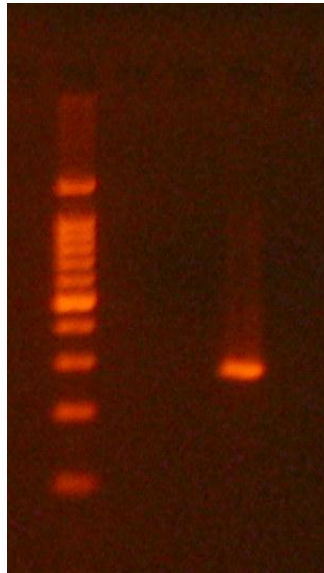
*Moana Technologies, LLC, Halawa Research Station
99-1255 Waiua Place #4, Aiea Hawaii 96701
phone: (808)-488-6554/fax: (808)-488-4502*



PCR Results: CTSA T741, T742, T743 (Mt-12-85)

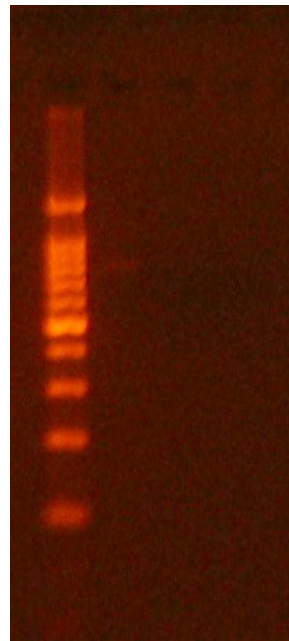
Date Reported: 09-19-2012

Primers: TRLO F/R



Lane 1: Ladder
Lane 2: vial T743
Lane 3: no template
Lane 4: +TRLO

Primers: CO-I (fish DNA)



Lane 1: Ladder
Lane 2: vial T743
Lane 3: no template
Lane 4: no template

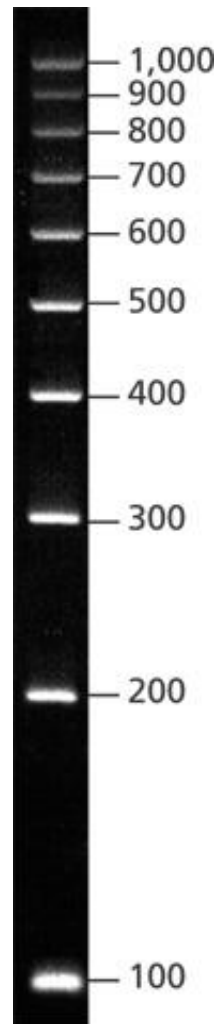
**Moana Technologies, LLC, Halawa Research Station
99-1255 Waiua Place #4, Aiea Hawaii 96701
phone: (808)-488-6554/fax: (808)-488-4502**



PCR Results: CTSA T741, T742, T743 (Mt-12-85)

Date Reported: 09-19-2012

An Example (Sigma-Aldrich) of a DNA Base-Pair (BP) Ladder with Markers at 100 BP increments.



*Moana Technologies, LLC, Halawa Research Station
99-1255 Waiua Place #4, Aiea Hawaii 96701
phone: (808)-488-6554/fax: (808)-488-4502*



PCR Results: CTSA T778, T741 (re-test)

Date Reported: 11-07-2012

MEMORANDUM

Date: November 7, 2012

To: Dr. Clyde S. Tamaru
Aquaculture Specialist
College of Tropical Agriculture and Human Resources
Department of Molecular Biosciences and Bioengineering
1955 East-West Road, Ag. Science 218
Honolulu, HI 96822

Phone: 808-342-1063

email: ctamaru@hawaii.edu

Subject: The 64th Report for the CTSA Project: PCR test results for the two tissue samples received on October 17, 2012.

The two vial samples of ethanol preserved fish tissue were processed by standard PCR test methods and the extracted DNA was assayed using TRLO primers and a fish tissue quality control primer designated CO-I.

The TRLO PCR test was negative for the two samples and the CO-I PCR test was positive for the two samples. Faint bands distant from the positive control bands were noted on TRLO gel. These were 'noise' bands.

The results indicated TRLO DNA was not present in the tissue sample vials, and that the extracted DNA was of suitable quality to support a reliable PCR test assay for TRLO in the two vials.

Photographs of the PCR gels for samples are appended for your records.

The discrepancy is unexplained the prior CO-I test result and the current CO-I test result for T741.

Thank you and best regards.

Moana Technologies, LLC, Halawa Research Station
99-1255 Waiua Place #4, Aiea Hawaii 96701
phone: (808)-488-6554/fax: (808)-488-4502



PCR Results: CTSA T778, T741 (re-test)

Date Reported: 11-07-2012

PCR Results:

Vial #	MTI#	TRLO	CO-I (fish DNA)
T778 (retest)	CTSA #T778	*_	P
T741 (retest)	CTSA #T741 (retest)	*_	P

Notes: * = band doesn't line up with positive control, noise

CORRECTED VERSION

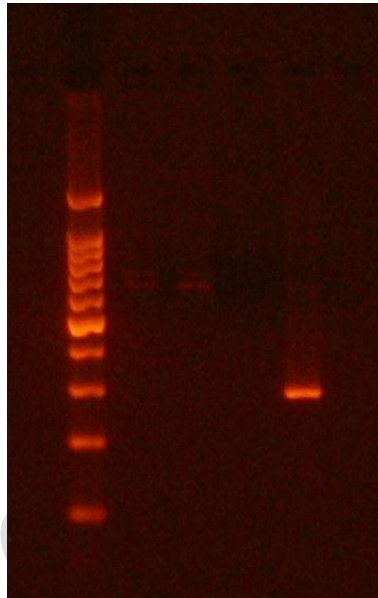
**Moana Technologies, LLC, Halawa Research Station
 99-1255 Waiua Place #4, Aiea Hawaii 96701
 phone: (808)-488-6554/fax: (808)-488-4502**



PCR Results: CTSA T778, T741 (re-test)

Date Reported: 11-07-2012

Primers: TRLO F/R



Lane 1: Ladder
Lane 2: vial T778
Lane 3: vial T741 (retest)

Lane 4: no template
Lane 5: +TRLO

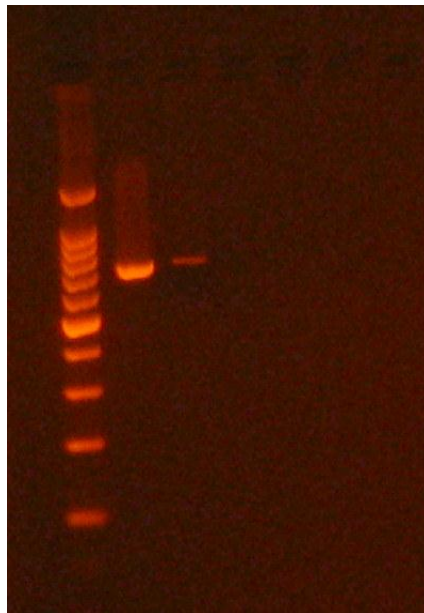
Moana Technologies, LLC, Halawa Research Station
99-1255 Waiua Place #4, Aiea Hawaii 96701
phone: (808)-488-6554/fax: (808)-488-4502



PCR Results: CTSA T778, T741 (re-test)

Date Reported: 11-07-2012

Primers: CO-I (fish DNA)



Lane 1: Ladder
Lane 2: vial T778
Lane 3: vial T741 (retest)

Lane 4: no template
Lane 5: no template

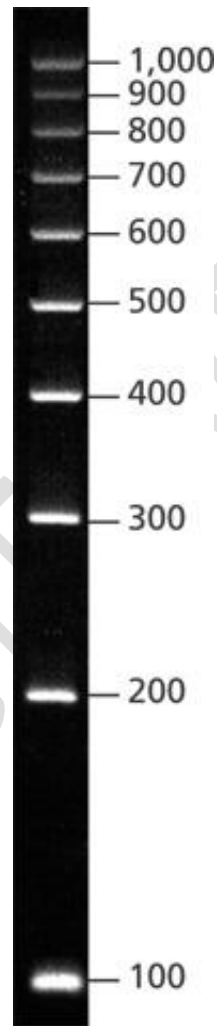
Moana Technologies, LLC, Halawa Research Station
99-1255 Waiua Place #4, Aiea Hawaii 96701
phone: (808)-488-6554/fax: (808)-488-4502



PCR Results: CTSA T778, T741 (re-test)

Date Reported: 11-07-2012

An Example (Sigma-Aldrich) of a DNA Base-Pair (BP) Ladder with Markers at 100 BP increments.



*Moana Technologies, LLC, Halawa Research Station
99-1255 Waiua Place #4, Aiea Hawaii 96701
phone: (808)-488-6554/fax: (808)-488-4502*