

Puritan Report for Batch – 25-806 1WC FDNA Lot# 4290

Prepared by the University of Maine DNA Sequencing Facility/ Patty Singer, October 6, 2015

Swabs were received for testing on September 3, 2015.

Testing Scheme

DNA Test: 80 Test Swabs [27 from Beginning (1-27), 26 from Middle (28-53) and 27 from End (54-80)]

3 Positive Control Cheek Swabs CS1, CS2 and CS3 (81-83)

3 Genomic DNA Control Reactions (84-86)

1 No DNA Control (87)

DNase Test: 27 Test Swabs [9 Beg. (1-9), 9 Mid. (10-18) and 9 End (19-27)]

1 Positive Control

1 Negative Control

RNase Test: 27 Test Swabs [9 Beg. (1-9), 9 Mid. (10-18) and 9 End (19-27)]

1 Positive Control

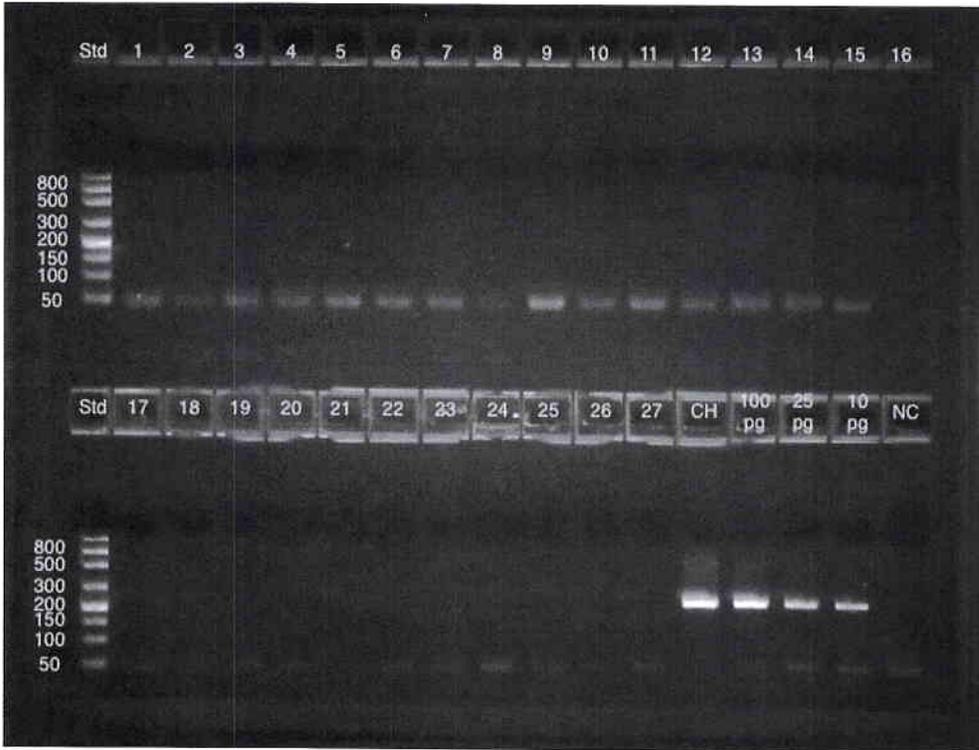
1 Negative Control

DNA Test

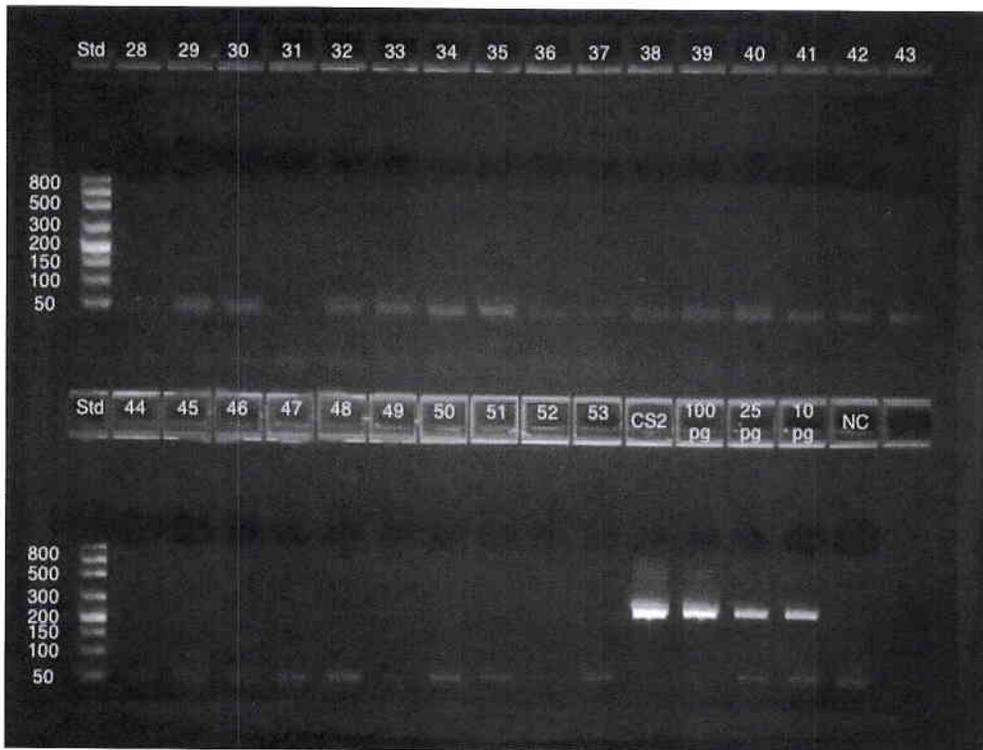
DNA was extracted from swabs using the Qiagen QIAamp DNA Blood Mini Kit in conjunction with the Qiagen QIAcube automated DNA prep instrument. In addition to the 80 sample swabs, DNA was also isolated from three positive control cheek swabs. PCR amplifications were performed on the DNA preps to determine whether DNA is present on the sample swabs. In addition to the 83 DNA preps, amplifications were also done on three control genomic DNA amounts (100 pg, 25 pg and 10 pg) as well as a no DNA control for a total of 87 PCR amplifications. The primers used for the amplifications are the human DNA repeat region AluYb8 (225bp).

After amplification an aliquot of each reaction was run on 2.2% double tier Lonza flash gels. A DNA ladder was also loaded as a size standard.

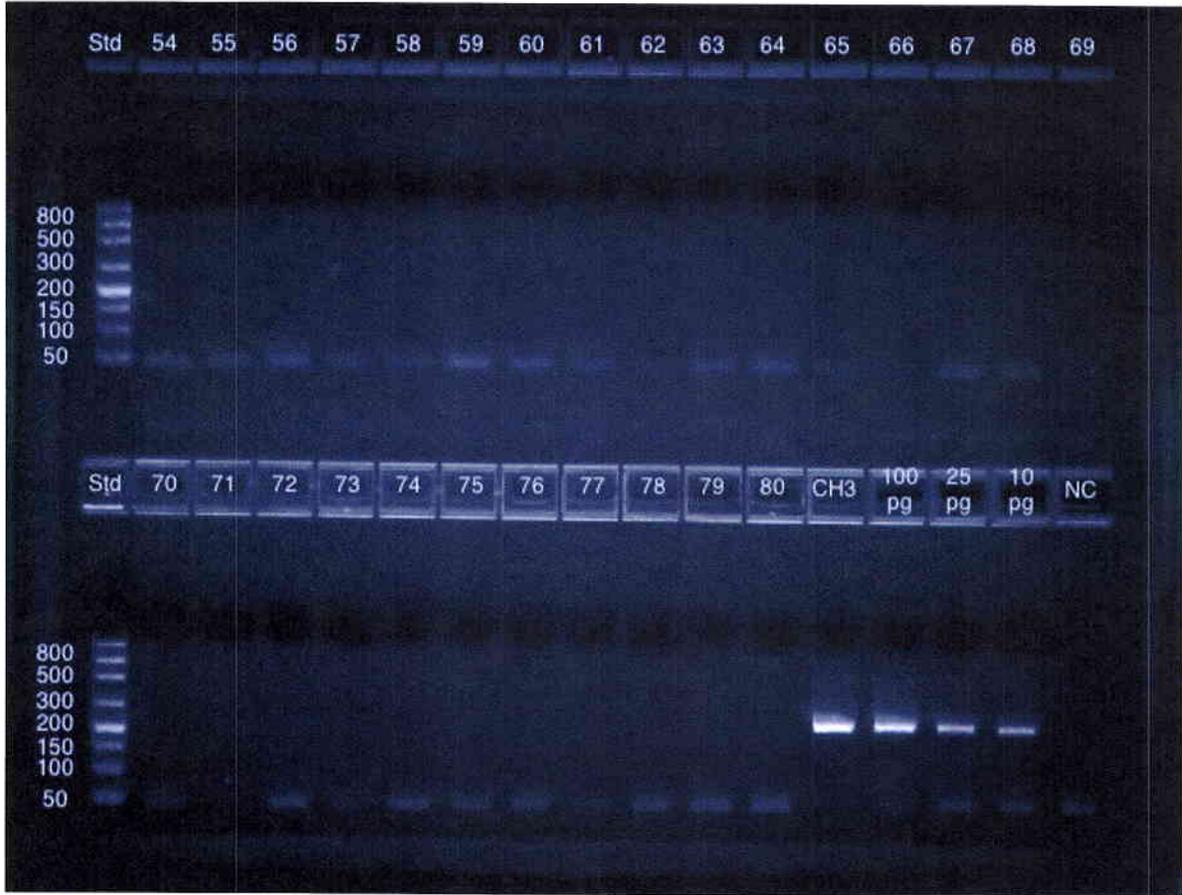
Beginning PCR Gel



Middle PCR Gel



End PCR Gel



Based on the above results these swabs are considered to be DNA-free and PASS.

Signature and Date

9.28.15-10.1.15

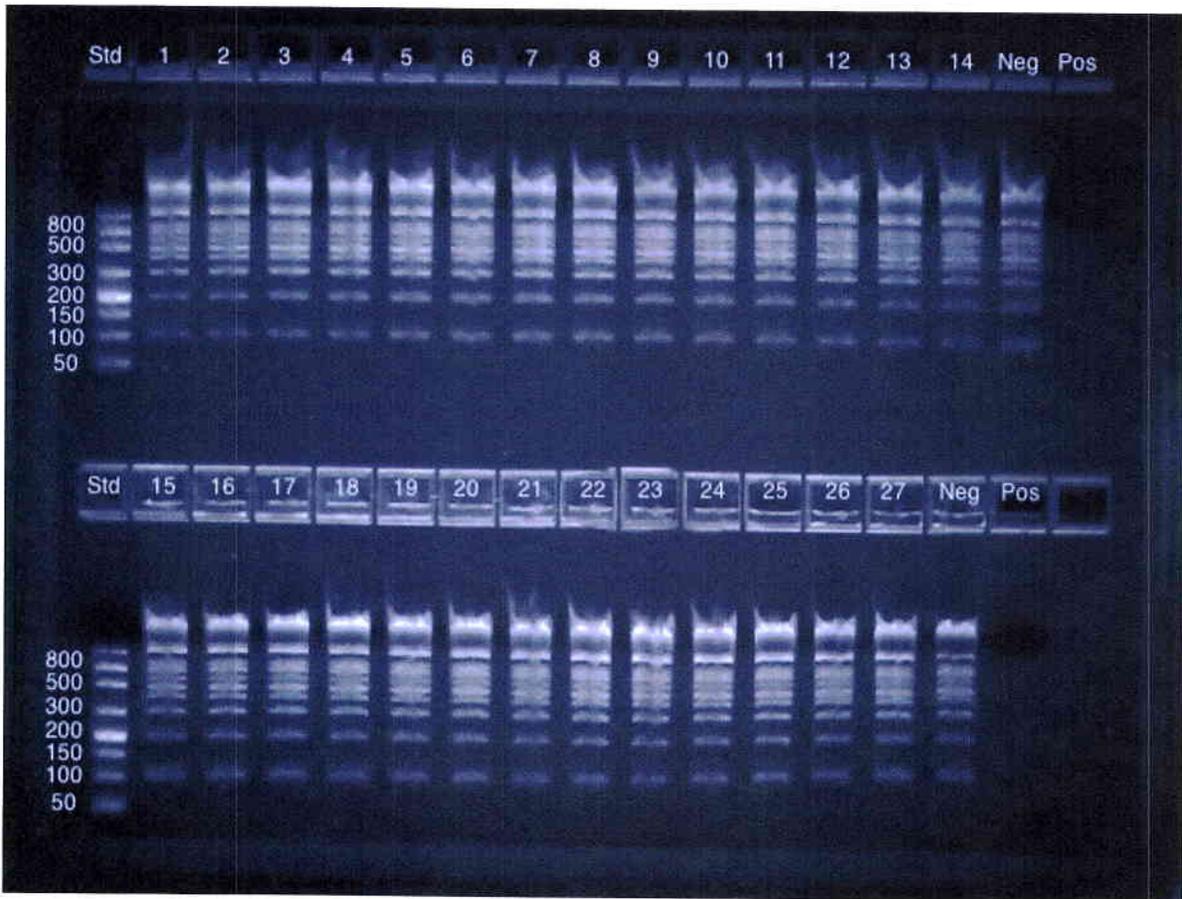
PMP Representative

Paul Lytle
Paul Lytle 10/12/15

DNase Test

Twenty-seven sample swabs were tested for the presence of DNase activity. Two controls, one positive and one negative, were also tested. The swabs and controls were incubated with the 1 KB Plus DNA ladder added as the substrate. The controls contained no swabs; the positive control had the addition of DNaseI while the negative control did not. Aliquots of each reaction were run on a 2.2% double tier Lonza flash gel. If there is DNase present on the swabs, then the 1 KB Plus DNA ladder from the test reactions should show degradation when compared to the negative control.

DNase Gel



The above results show that there is no degradation of the substrate DNA after incubation with the swabs. The swabs are considered to be DNase-free and PASS.

Signature and Date

10.2.15

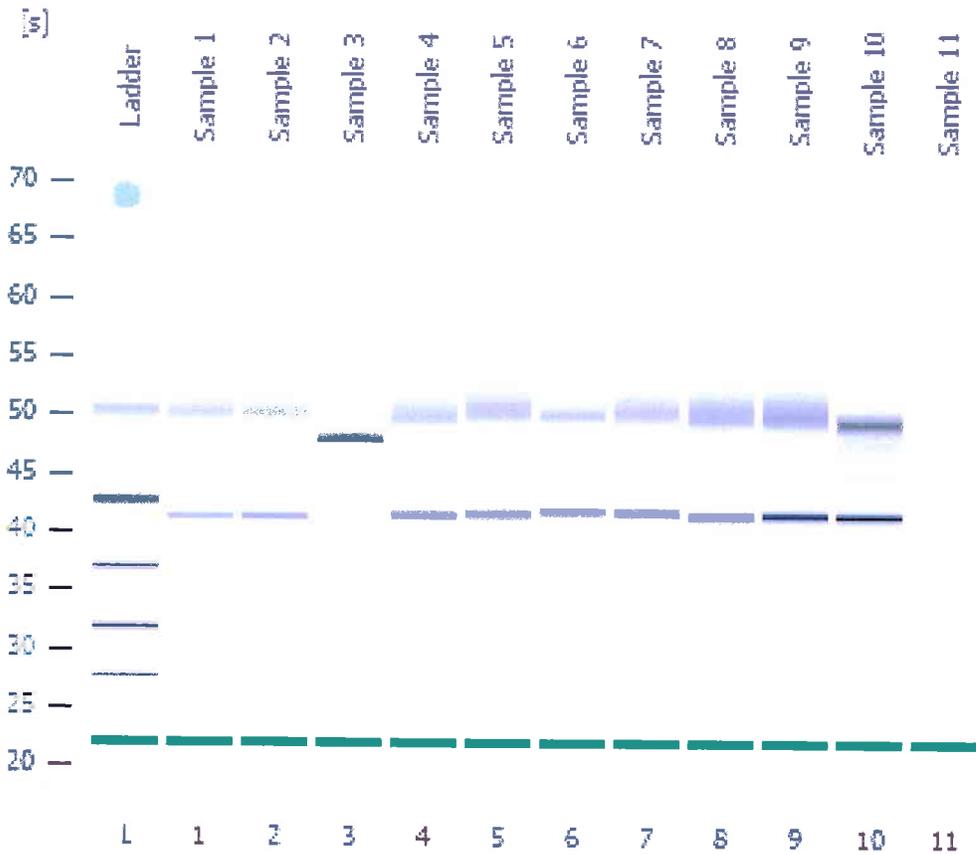
PMP Representative

Paul L. Jahn
Paul L. Jahn 10/12/15

RNase Test

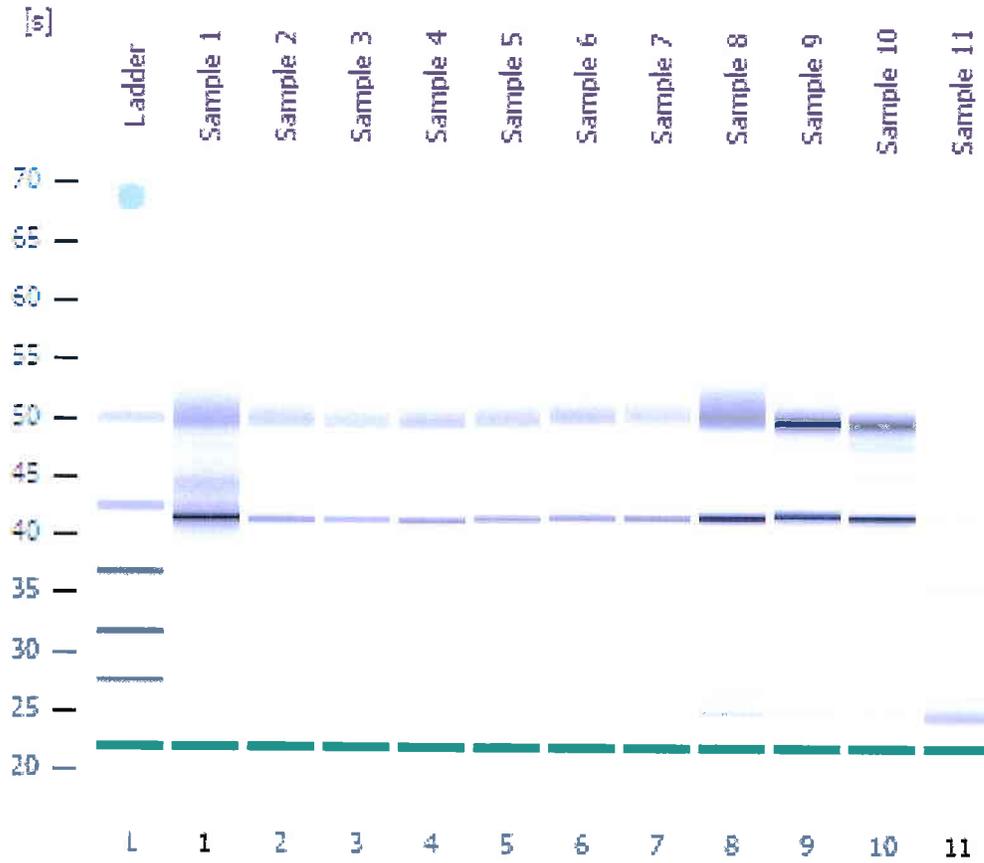
Twenty-seven swabs were tested for the presence of RNase activity. Two controls, one positive and one negative, were also tested. The swabs and controls were incubated with total RNA added as the substrate. The controls contained no swabs; the positive control had the addition of RNase A while the negative control did not. Aliquots of each reaction were run on the Agilent Bioanalyzer. If there is RNase present on the swabs the ribosomal RNA bands should show degradation when compared to the negative control. One chip was run for each region tested, beginning, middle and end.

Beginning Swabs Chip



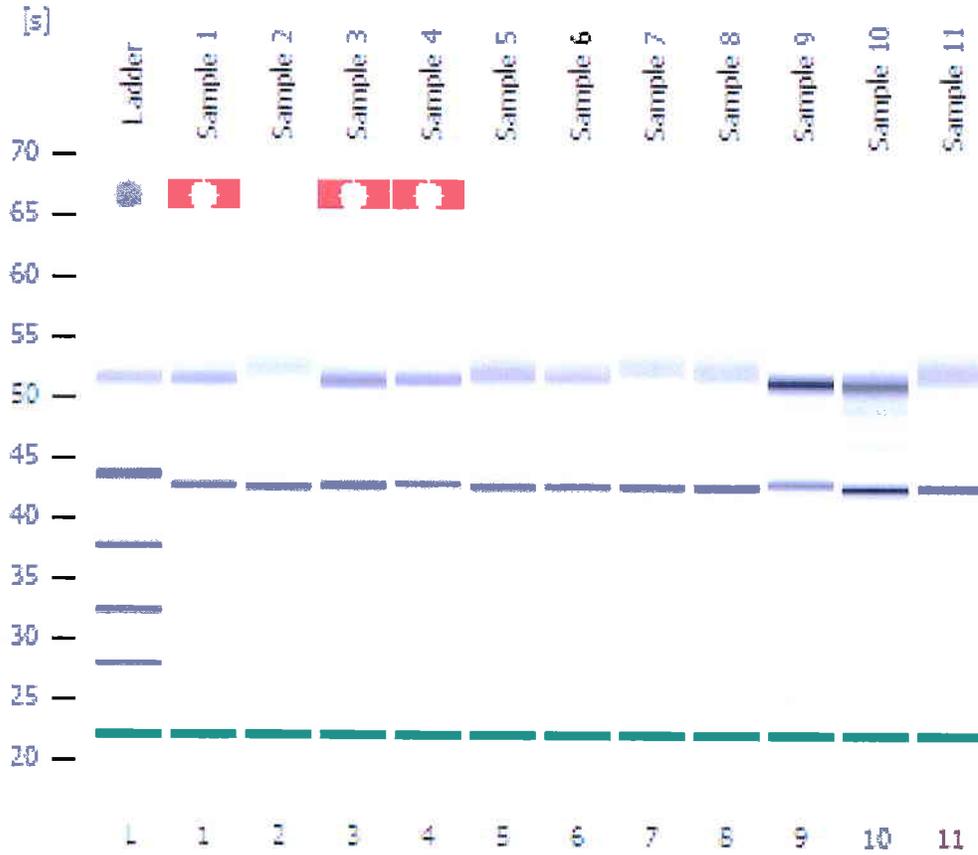
Samples 1-9 are the test swabs. Sample 10 is the negative control and sample 11 is the positive control.

Middle Swabs Chip



Samples 1-9 are the test swabs. Sample 10 is the negative control and sample 11 is a rerun of beginning swabs sample 3 that had an RNaseZAP peak obscuring the data.

End Swabs Chip



Samples 1-9 are the test swabs. Sample 10 is the negative control and sample 11 is a rerun of beginning swabs sample 3 that had an RNaseZAP peak obscuring the data.

The above results show that there is no degradation of the substrate RNA after incubation with the swabs. The swabs are considered to be RNase-free and PASS.

Signature and Date

10.5.15

PMP Representative

Paul Hoff
Paul Hoff 10/12/15