

FOOD SAFETY LAB / MILK QUALITY IMPROVEMENT PROGRAM



Standard Operating Procedure

Title: Receiving External DNA

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Receiving External DNA

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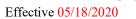




TABLE OF CONTENTS

1.	INTRODUCTION	3
Purpose		
Scope		
Definition	ns	
Safety		
2.	MATERIALS	4
3.	PROCEDURE	5
4.	TROUBLESHOOTING	6
5.	REFERENCES	7
6.	METHOD REVIEWS & CHANGES	8

Receiving External DNA FSL/MQIP @ CORNELL UNIVERSITY

Effective 05/18/2020 Version 02 Revised 04/22/2020

SECTION 1 INTRODUCTION

1.1 Purpose

The purpose of this document is to provide a procedure for uniform handling and receipt of purified DNA of variable concentrations received by the Food Safety Laboratory from external sources (e.g. government agencies, companies, academic institutions).

1.2 Scope

This SOP applies to the Food Safety Lab and MQIP Lab

1.3 Definitions

Externally purified DNA: DNA that has been isolated from a bacterial sample at a location outside of the Food Safety Lab and subsequently purified by an external source.

External source: The location outside of the Food Safety Lab that had the DNA in its possession or the location where isolation & purification of the bacterial DNA occurred.

1.4 Safety

Although DNA should be free of any live bacteria, use proper caution when opening the package and handling the samples.



Receiving External DNA FSL/MQIP @ CORNELL UNIVERSITY 020 Version 02 Revised 04/22/2020

Effective 05/18/2020

MATERIALS SECTION 2

- 70% ethanol or 20% Chlorine bleach
- PPE (Disposable gloves, lab coat, safety glasses)
- Sharpie marker
- -20°C Freezer box



Receiving External DNA FSL/MQIP @ CORNELL UNIVERSITY

Effective 05/18/2020 Version 02 Revised 04/22/2020

SECTION 3 PROCEDURES

3.1. Receipt of box & confirmation of contents

- (1) Examine exterior of box for damage or leakage
- (2) Apply either 70% ethanol or 20% bleach to bench surface to disinfect working area.
- (3) Open box and carefully remove its contents over bench.
- (4) Confirm that contents appear to be in good condition.
- (5) Cross reference tubes of purified DNA contained within box with packing slip or accompanying paperwork. All numbers/names should match perfectly. Make a notation of any discrepancy on the paperwork and contact source of external DNA for clarification.
- (6) Arrange tubes in order listed on paperwork and deposit in a labeled freezer box. Store purified DNA at -20°C.
- (7) All paperwork is to be retained for external samples. The original is placed into the applicable binder with the date of receipt and the initials of the person that handled their receipt noted at the bottom of the original. A dated entry should also be made in that person's lab notebook.



Receiving External DNA FSL/MQIP @ CORNELL UNIVERSITY

Effective 05/18/2020 Version 02 Revised 04/22/2020

SECTION 4 TROUBLESHOOTING

- (1) Any discrepancies between the packing slip and the contents, should be noted on the packing slip and communicated to the sender.
- (2) Any broken, or leaking tubes should be reported to the sender. Segregate compromised tubes from the remainder of the contents of the package. The uncompromised tubes should be wiped with a Kim Wipe treated with a 20% bleach solution and allowed to sit for 20 minutes. Following this treatment, the tubes should be wiped with a Kim Wipe wetted with water and followed by a 70% ETOH wipe.



Receiving External DNA FSL/MQIP @ CORNELL UNIVERSITY D20 Version 02 Revised 04/22/2022

Effective 05/18/2020

SECTION 5 REFERENCES

SECTION 6 METHOD VERSION & CHANGES

VERSION	DATE	EDITOR	COMMENTS
Version 1	03/07/2007	E.D.F	Original SOP
Version 2	04/22/2020	Ser15	Reformatted SOP to new template.