SOP#BIO-001 Colilert-24hr

1.	Vero Base Form
2.	Verb Base Form
3.	Verb Base Form
4.	Verb Base Form
5.	Noun
6.	Noun
7.	Noun
8.	Noun
9.	Number
10.	Adjective
11.	Noun
12.	Adverb
13.	Noun
14.	Noun
15.	Verb Base Form
16.	Noun
17.	Noun
18.	Noun
19.	Noun
20.	Verb Present Ends In Ing
21.	Verb Present Ends In Ing
22.	Verb Present Ends In Ing
23.	Verb Base Form

24.	Verb Base Form
25.	Verb Base Form
26.	Noun
27.	Noun
28.	Number
29.	Number
30.	Number
31.	Adjective
32.	Number
33.	Noun
34.	Adjective
35.	Number
36.	Number
37.	Number
38.	Adverb
39.	Number
40.	Noun
41.	Adjective
42.	Noun
43.	Noun
44.	Noun
45.	Noun
46.	Number
47.	Noun
48.	Noun

SOP#BIO-001 Colilert-24hr

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Subject: Colilert				
Author: Patrick Williford				
Last Revision By: Ursula Gray				
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1. Purpose and Applicability:
(
Base Form a (Noun)(Noun)(Noun) according to the Revised Tota
Coliform Act, April
2. Summary of Method:
Colilert DST* is metabolized by Total coliforms producing a (
presence of nutrient indicator, ONPG. Colilert is () used to detect E. coli, () (
) in the presence of nutrient indicator MIIG, which (Verb Reco Form) when positive

. Definitions:
a. CD-Coliform Duplicate-One Distribution sample that is replicated during collection.
b. Blank-() collected to be run with samples collected on the same day.
c. Total coliform
d. E. coli-Escheria coli,
e. CFU-Colony Forming Unit
f. PPE-Personal Protection
4. Health and Safety Warning:
a. Utilize all Microbiological Safety procedures:
b. Wear proper PPE-(), safety glasses, lab coat and close toe, upper leather shoes, face coverings
c. Disinfect () counter tops
d. No
area
e. Autoclave all bacterial waste
f. () hands with germicidal soap
g. () lab coats and gloves when exiting lab
5. Cautions

. Do not (
B. Do not place () to sample on countertop
C. Samples should be held at (> Number and < Number) no longer than Number hours
from time of collection to analysis.
D. Samples are (
E. Frozen () are invalid.
F. Coliform () should be collected with each set of Distribution samples per Investigator.
G. HPC must be performed on samples with a chlorine residual less than () mg/L.
H. Raw water samples must be refrigerated no longer than () hours and analyzed within
Number hours.
I. (Adverb) check for fluorescence of positive samples, using the manufacturer comparator.
J. Samples should be mixed uniformly
K. Positive, distribution samples should be resampled within () hrs. of discovery.
6. Interferences:
A. Excessive produces a blue flash when Colilert snap pack is introduced, (Adjective)
sample.
7. Personnel Qualifications:
Minimum

of three months training in microbiological analysis of drinking acceptable to the State (or EPA)
and 30 on the job training under an experienced analyst.
8. Noun and Supplies
A. Incubator
B. Chromogenic snap packs
C. Sample collection
D. UV lamp-Longwave ()nm
9. Procedural Steps
A. Disinfect work
B. Wash hands before and after handling Colilert reagent and samples
C. Open snap pack, pour into sample, avoid touching snap pack to rim of the vessel, do not put
Noun on counter, hold cap down
D. (
•
E. Place in (
F. Incubate samples at 35.0°C (Adverb) 0.5°C for Number hours.

A. Chain of custody should contain test method, incubation date and time, Initials of performing				
test				
B. Enter distribution sample data into the reporting program.				
C. Print out report and place in the Distribution and Bracketing				
D. Distribution files should be archived at the end of the month.				
11.Qulity Assurance and Quality Control				
A. Positive and Negative Control: Run a positive and negative control every three months on the lot of Colilert				
and new lots opened.				
B. Autofluorescence Check: Check each lot to see if the snap pack contents florescence or changes color. Inform				
Manger, discontinue use of the lot.				
C. PE Study: Once per year from an EPA certified laboratory.				
12. References:				
Standard Methods for the Examination of Water Wastewater 24th Ed., 2021 ()				
IDEXX Laboratories, Inc.				

DATA and Records Management

-Manual	

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