

SOP#BIO-001 Colilert-24hr

1. Verb 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
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46. Number
47. Noun
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51. Verb Base Form
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53. Noun
54. Adjective
55. Adverb
56. Number
57. Noun
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59. Number

SOP#BIO-001 Colilert-24hr

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1. Purpose and Applicability:

(Verb Base Form) the (Verb Base Form) or (Verb Base Form) of total coliforms Verb
Base Form a (Noun)(Noun)(Noun)(Noun) according to the Revised Total
Coliform Act, April Number.

2. Summary of Method:

Colilert DST* is metabolized by Total coliforms producing a (Adjective) (Noun) in the
presence of nutrient indicator, ONPG. Colilert is (Adverb) used to detect E. coli, (Noun) (Noun),
in the presence of nutrient indicator, MUG, which (Verb Base Form) when positive.

. Definitions:

a. CD-Coliform Duplicate-One Distribution sample that is replicated during collection.

b. Blank-(Noun) 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 Noun

4. Health and Safety Warning:

a. Utilize all Microbiological Safety procedures:

b. Wear proper PPE-(Noun), safety glasses, lab coat and close toe, upper leather shoes, face coverings

c. Disinfect (Noun) counter tops

d. No Verb Present ends in ING , Verb Present ends in ING , or Verb Present ends in ING in the lab working area

e. Autoclave all bacterial waste

f. (Verb Base Form) hands with germicidal soap

g. (Verb Base Form) lab coats and gloves when exiting lab

5. Cautions

A

. Do not (_____ Verb Base Form _____) open (_____ Noun _____) pack to sample bottle when planting

B. Do not place (_____ Noun _____) 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 (_____ Adjective _____), if held longer than _____ Number _____ hours.

E. Frozen (_____ Noun _____) are invalid.

F. Coliform (_____ Adjective _____) should be collected with each set of Distribution samples per Investigator.

G. HPC must be performed on samples with a chlorine residual less than (_____ Number _____) mg/L.

H. Raw water samples must be refrigerated no longer than (_____ Number _____) 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 (_____ Number _____) hrs. of discovery.

6. Interferences:

A. Excessive _____ Noun _____ 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 _____^{Noun} acceptable to the State (or EPA) and 30 _____^{Noun} on the job training under an experienced analyst.

8. _____^{Noun} and Supplies

A. Incubator

B. Chromogenic snap packs

C. Sample collection _____^{Noun}

D. UV lamp-Longwave (_____^{Number})nm

9. Procedural Steps

A. Disinfect work _____^{Noun}

B. Wash hands before and after handling Colilert reagent and samples

C. Open snap pack, pour into sample _____^{Noun}, avoid touching snap pack to rim of the vessel, do not put _____^{Noun} on counter, hold cap down

D. (_____^{Verb Base Form}) sample and (_____^{Verb Base Form}) sample (_____^{Number}) times for proper mixing

E. Place _____^{Noun} in (_____^{Adjective}) (noun).

F. Incubate samples at 35.0°C (_____^{Adverb}) 0.5°C for _____^{Number} hours.

10.

DATA and Records Management

- A. Chain of custody should contain test method, incubation date and time, Initials of _____ Noun performing test
- B. Enter distribution sample data into the reporting program.
- C. Print out report and place in the Distribution and Bracketing _____ Noun.
- D. Distribution files should be archived at the end of the month.

11. Quality 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 fluorescence 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 (_____ Number _____)

IDEXX Laboratories, Inc.

-Manual

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