

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

45. Noun

46. Number

47. Noun

48. Noun

49. Noun

50. Verb Base Form

51. Verb Base Form

52. Number

53. Noun

54. Adjective

55. Adverb

56. Number

57. Noun

58. Noun

59. Number

SOP#BIO-001 Colilert-24hr

Categories: Biology

Subject: Colilert

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SOP Designation: SOP#BIO 001

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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-Escherichia 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 fluoresce or changes color. Inform Manager, 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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