



Water testing for E. coli and Coliform

EC Blue—MPN

Simplified MPN testing with EC Blue100/100P

EC Blue was introduced in 1998, and being an official water testing method in Japan approved by JWWA (2001). On March, 2007, a quantitative testing for E. coli (MPN testing using specific enzyme substrate-containing medium) was introduced as an official testing method for index bacteria by MHLW.

EC Blue - MPN is a ready-to-use in two steps testing without troublesome handling such as a

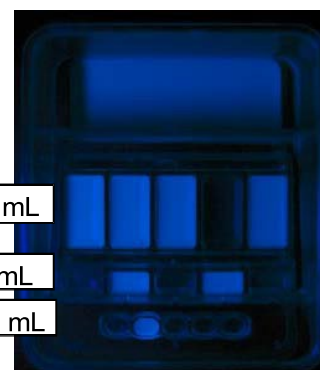
「Feature」

- ① Compact size [11cm (long) x9cm (wide) x5cm (height)]
- ② The method is based on Standard MPN procedure using a minimum of 3 dilutions (10, 1, 0.1mL) and 5 tubes per dilution.
- ③ A series of dilution procedures is not needed. EC Blue solution prepared with a watery sample (100mL) is only poured into a device.
- ④ As compared with a conventional MPN method, time and labor for dilution procedure and inoculation of each tube are reduced.
- ⑤ The MPN method is based on ISO-IS, and the result is obtained from the MPN calibration scale described in ISO 9308-2.
- ⑥ In case of no-fluorescence in wells of the device, the viable count is determined as less than 1 cfu/100mL.



「How to use」

- ① EC Blue solution (100mL) is prepared using a watery sample and EC Blue 100/100P
- ② The EC Blue solution is poured into the slope surrounded by a blue broken line (see the right picture). After each well (10, 1, 0.1mL) is filled, excess of the EC Blue solution is pooled into the upper side (see the right picture).
- ④ The device is capped, then incubated at 35-37 degrees Celsius for 24 h.
- ⑤ After incubation, see if fluorescence is observed in wells by UV irradiation (366 nm). The positive well is determined by comparing to a color comparator (positive control).



In the above case, the positive numbers corresponding 10, 1, and 0.1mL are 4, 2, and 1, respectively. The total cell number is determined as 26 cfu / 100mL from the MPN calibration scale.

「Determination」

The total cell number is determined from the MPN calibration

■ Package presentation

Main frame and lid / 1 unit

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