Rapid HiEnterococci™ Test Kit K017

The Rapid HiEnterococci™ Test Kit is used for rapid and easy identification and differentiation of *Enterococci* from water sample. It contains chromogenic substrate, which aids in the detection of *Enterococci* from water sample.

Composition :

Ingredients	Gms/pack
Peptone, special	1.00
Sodium chloride	0.50
Sodium azide	0.03
Chromogenic substrate	0.004
Polysorbate 80	0.20
Disodium dihydrogen phosphate	0.125

Direction :

Collect 100 ml water to be tested in sterile disposable bottle. Add entire quantity of medium by swirling to dissolve the powder completely. After dissolution, incubate the bottle for 24-48 hours at 35-37°C. Observe the colour change of the medium from light yellow to blue green indicating the presence of *Enterococci*.

Warning: Sodium azide has a tendency to form explosive metal azides with plumbing materials. It is advisable to use enough water to flush off the disposables.

Principle and Interpretation :

The rapid HiEnterococci™ Test Kit allows for rapid identification and differentiation of *Enterococci* from water samples.

The peptone special supplies nitrogenous compounds and sodium chloride provides the osmotic balance for rapid growth of *Enterococci*. Sodium azide inhibits the accompanying microflora, especially the gram negative organisms.

The enzyme β-D-Glucosidase present in *Enterococci* cleaves the chromogenic substrate, resulting in an intensive colour change in the broth to blue green.

Quality Control :

Appearance:

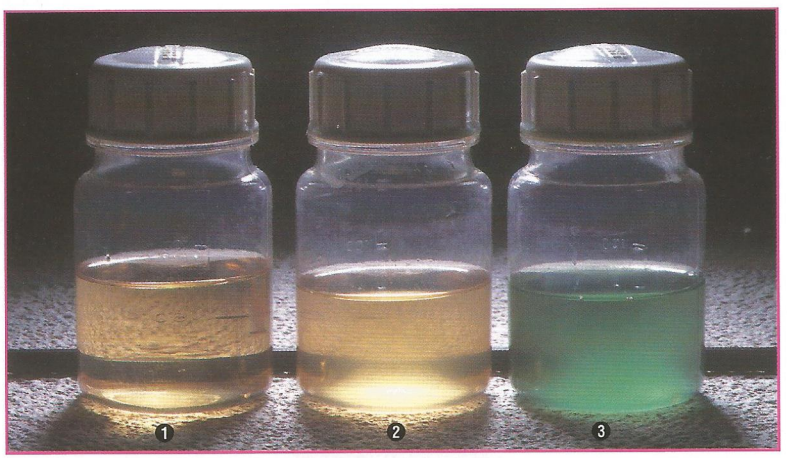
Cream to yellow coloured, homogeneous, free flowing powder.

Colour and Clarity :

Yellow coloured, clear solution.

Cultural Response :

Cultural characteristics observed after an incubation of 24 – 48 hours at 35 - 37°C.



1. Control 2. *E. coli* (Negative reaction) 3. *E. faecalis* (Positive reaction)

Organism (ATCC)	Colour change in medium
E. coli (25922)	slightly (pale) yellow**
E. faecalis (29212)	blue green*

Key : * = Positive – colour change to blue green
** = Negative – no colour change (yellow)

References :

1. Althous, H., Dott, W., Havemeister, G, Muller, H.E, and Sacre',C., 1982, *Zbl. Bakt. Hyg. I. Abt. Orig. A*. 252:154-165.
2. Amoras I, 1995, Poster präsentation congress of Spanish Society of Microbiology, Madrid.
3. Litsky, W., Mallmann, W.L., and Fifield, C.W. 1953, *Amer. J. Pbl. Hlth*. 43:873-879.
4. Manafi M., and Sommer R, 1993, *Wat. Sci. Tech*. 27:271-274.
5. Snyder M.L., and Lichstein, H.C. 1940, *J. Infect. Dis*. 67:113-115.

Storage and Shelf-life :

On receipt store between 2 - 8°C. It has shelf-life of 3 years.