
Product Name : Peptidase A Stick

Rapid test for identification of group A and group D streptococcus

CONTENT OF THE PACKAGES

Peptidase A Stick 30 Stick
PYR – Reagent 1 x 3ml
1 Instruction sheet

DESCRIPTION

Peptidase A Stick is a rapid test for the presumptive identification of β -hemolytic streptococcus of group A (*Streptococcus pyogenes*) and streptococci α - β - γ haemolytic of group D (*Enterococci*).

PRINCIPLE OF THE METHOD

Sticks are impregnated with the substratum L-pyrrolidonyl- β -naphthylamide (PYR) that, in presence of the enzyme L-pyroglutamyl-aminopeptidase, present in the germ, develops a pink-red color because of the addition of PYR-Reagent (N,N-dimethyl-amino-cinnamaldehyde).

COLLECTION OF SAMPLES

The colonies to be subjected to the Peptidase A Stick may be taken from either selective or non-selective media, which must, however, be color-free (es. Columbia Blood Agar, Tryptic Soy Agar).

USE

1. Take the container from the refrigerator and leave on the bench for some minutes until it reaches ambient temperature.
2. Select a well-isolated colony on the isolation medium.
3. Take a stick of Peptidase A from the container.
4. With a loop of plastic, take the colony to be subjected to the test and smear it meticulously on the end of the stick.
5. Add two drops of PYR-Reagent.
6. After two minutes observe development, or non-development of a pink-red coloration and interpret the results.

INTERPRETATION OF THE RESULTS

Interpret the results according to the table;

Color of the Stick	Peptidase A Stick
pink-red	Positive
No color change	Negative

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QUALITY CONTROL

Each lot of Peptidase A Stick is subjected to the test for the determination of the enzyme L-pyroglutamyl-aminopeptidase :

Microorganism		Peptidase A Stick
<i>Streptococcus pyogenes</i>	ATCC 19615	+
<i>Enterococcus faecalis</i>	ATCC 29212	+
<i>Escherichia coli</i>	ATCC 25922	-
<i>Staphylococcus aureus</i>	ATCC 25923	-

PRECAUTIONS

Peptidase A Stick contains substances classified as dangerous under current legislation: it is recommended that the safety data sheet be consulted for its use. Peptidase A Stick is a disposable device. Peptidase A Stick is only for diagnostic use in vitro. It is intended for use in a professional environment and must be used in a laboratory by adequately trained personnel using approved asepsis and safety methods for dealing with pathogenic agents.

STORAGE

Store Peptidase A Stick at 2-6°C in its original pack. In such conditions the product Peptidase A Stick is valid until the expiry date indicated on the label. Do not use beyond that date. Eliminate without using if there are signs of deterioration (change of color of the stick).

REFERENCES

- Bosley G. S., Facklam D.A., Grossman D. : Rapid Identification of enterococci. 1983. *Journal of Clinical Microbiology*, 18, 1275-1277.
- Ellner P.D., Williams D.A., Hosmer M.E. Cohenford M.A.: Preliminary evaluation of a rapid colorimetric method for the presumptive identification of group a streptococci and enterococci. 1985. *Journal of Clinical Microbiology*, 22, 880-881.
- Facklam R.R., Thacker L.G., Fox B., Enriquez L.: Presumptive identification of streptococci with a new test system. 1982. *Journal of Clinical Microbiology*, 15, 987-990.
- Di Girolamo A., Catamo G., Cellini L., Allocati N., Faraone A., Brocco S., Piccolomini R. : Valutazione di un metodo colorimetrico rapido (Peptidase A test) per la identificazione presuntiva di *Streptococcus pyogenes* ed enterococchi. 1992. *Bollettino di Microbiologia e Indagini di laboratorio*, 12, 11-14.

PACKAGING

Cat. No : MB-88034
Peptidase A Stick

30 sticks