Group Nr.:
LABORATORY PROTOCOL Nr.4
Topic: Enterobacteria, Pseudomonas
Task Nr.1: Biochemical identification of Enterobacteria – Enterotest24
Principle:
The differentiation of enterobacteria is based on the species' typical biochemical activity. The tests use the detection of metabolic products, usually based on a change in the pH of the growth medium.
Procedure:
Create a suspension with a turbidity of 1 McFarland, add 100μ l of inoculum to each well of the test, drip the designated wells with paraffin oil (anaerobic conditions). Incubate for 24 hours at 37°C and check the reactions.
Conclusion:
Task Nr.2: Serotypization of enterobacteria
Principle:
The indirect method (slide agglutination) uses the complex structure of enterobacteria (O - somatic, H - flagellar antigens) to distinguish the serotype (combination of O and H antigen). It is used to identify pathogenic serotypes.
Procedure:
Make a suspension in a drop of phys. saline solution, add a drop of serum next to the suspension and mix it. Check the formation of precipitate.
Conclusion:

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Task Nr.3: O/F test	
Principle:	
Oxidization/fermentation of glucose is used for different of aerobic (oxidization) and anaerobic (fermentation) be	
Procedure:	
Inoculate two tubes with the test strain by inserting loo paraffin oil. After incubation, we observe a color change hours at 37°C and check the reaction.	
Conclusion:	
Task Nr.4: Test of oxidase production	
Principle:	
Detection of cytochrome oxidase by color reaction of N naphthol to give indolphenol blue.	N-dimethyl-1,4-phenylenediamine with $lpha$ -
Procedure:	
Directly imprint the strip testing zone onto one or sever change.	al colonies of testing culture. Evaluate the color
Conclusion:	
Task Nr.5: Isolation of <i>Pseudomonas aeruginosa</i> pigme	ent
Principle: Pyocyanin is a blue-green pigment soluble in I properties of a siderophor. The pigment can be extracted possible to change the color of the solution.	

Add 1 ml of chloroform into the tube with 2ml of inactivated *Pseudomonas aeruginosa* broth culture.

Procedure:

Conclusion:

Tightly cover the tube with cape and carefully shake.