

The People's Democratic Republic of Algeria
Ministry of Higher Education and Scientific Research
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Institute of Natural and Life Sciences
Department of Natural and Life Sciences

TD 06 Immunology

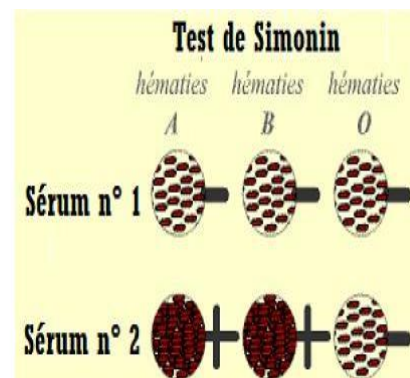
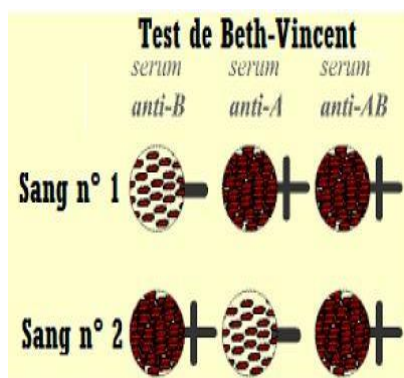
Exercise 01:

Two tests can be used to determine the ABO blood type: the Beth-Vincent test and the Simonin test.

3- What makes it possible to determine each of the two tests?

4- How do we carry out each of the two tests?

5- Two blood samples are subjected to the Beth-Vincent test and two serum samples are subjected to the Simonin test. The results are as follows:



Which blood type is each of the individuals who donated these samples? Justify the answer.

Exercise 2: Before using a donor's blood, it must be checked that the donor has not been contaminated by viruses such as HIV and many others in order to avoid possible contagion. To do this, we seek to identify the specific antibodies that the body could have produced in response to such infections. Different tests are used including ELISA.

A- Explain the principle of the ELISA test.

B- What are the steps for performing the HIV test?

C- Is a positive ELISA test sufficient to declare HIV-positive? How do I confirm this?