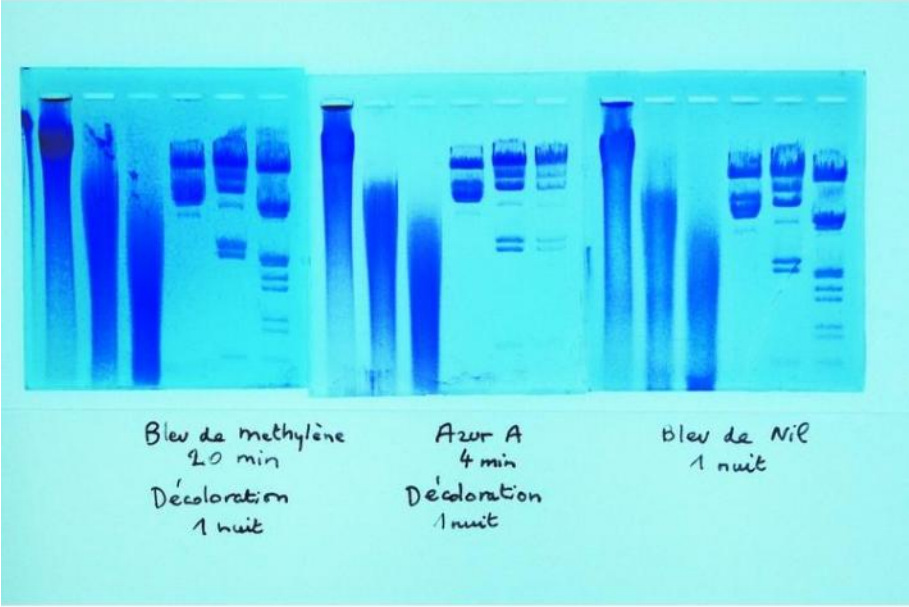
ELECTROPHORESIS OF DNA NO. 1

PRODUCT SHEET

References : ELECADN, ELECADNSG



"Digestion and restriction map"
Practical objectives:PCR
Performing digestion with a restriction enzyme.
DNA deposits in the wells of an agarose gel.
Start of electrophoresis and staining of the gel.

Theoretical objectives:
Going further into the principle of DNA electrophoresis.
Interpretation of the effect of dilution and digestion on salmon DNA.
Creation of a restriction map from the bands obtained after electrophoresis of lambda phage DNA digested by 2 restriction enzymes with the aid of instructions to establish the size of the fragments in base pairs.

Composition :
To make 4 gels of 25ml

- 100ml of TAE 10 buffer x pH =8.3 to dilute 10 times to get 1,000ml of buffer
- 1.6 g of agarose (for 8 gels of 25ml)
- 25 Pasteur pipettes calibrated for deposits in wells
- 0.25ml of deposit blue

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- 0.05g of freeze-dried salmon DNA
- 50µl EcoR1 restriction enzyme
- 125µl of a DNA solution of phage Lambda digested with EcoR1
- 125µl of a DNA solution of phage Lambda digested with HindIII
- 125µl of a DNA solution of phage Lambda digested with EcoR1 +HindIII
- 10ml of sterile water

Technical and educational instructions available on our website.

Necessary material:

- Standard DNA electropheris tank (photos 1) : for versions stained a posteriori with Azure A; Generator 70-110 V, 20 mA
- BlueGel tank (photos 2) : for immediate disclosure versions without additional handling or standard tank + Transilluminateur
- Water bath or microwave
- Gloves
- Micropipettes from 5 to 50 µl and adpated cones

Conservation: 3 months
Enzyme and DNA: in the freezer
Colour (protected from light), TAE buffer, sterile water: in the refrigerator

Reference	**Tank**	**Dye**
ELECADN	standard	Azure A
ELECADNSG	BlueGel	SafeGreen