

CATABOLIC REPRESSION

References : RC/SMAC, RC/SMC



Cell metabolism

"Catabolic repression by adenine and effect of anaerobiosis on the Ade2 strain"

Cognitive objectives:

Show that the phenotype does not depend solely on the genotype; the expression of a gene is also subject to environmental factors.

Approach to the Genotype-Phenotype relationship. Example of a metabolic pathway, catabolic repression.

Results obtained:

1st action: If the culture medium is supplemented with adenine in large quantity, the strain does not redden.

2nd action: If the strain is deprived of oxygen, it does not redden.

For more information, consult the manual.

Composition :

The kit is composed of the strain and the medium

- *Saccharomyces cerevisiae* Ade2 on a Petri dish
- 1 litre specific to the growth of our Ade2 yeast (for 50 Petri dishes), 50 blank pellets, adenine powder, 200 ml of sterile water
Technical and educational instructions available on our website.
OPTION Material for 40 students:
- 25 sterile droppers
- 1 KOVA numbering contact slides

- 20 inoculators
- 20 sterile spreaders
- Sterile tubes: 20 of 5 ml, 2 of 50 ml and 4 of 10 ml
Conservation:
2 months at 4° C. Attention, the strain blanches in the refrigerator, arrange for transplanting if you keep the strain for more than two weeks.

Strain and poured medium
Réf : RC/SMC

Strain and pouring medium
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