

SYNTHESIS OF MELANIN

Reference : MELA



In cosmetology, knowledge of the processes of melanin synthesis of the skin allows the manufacture of products such as sunscreens.

Proposed activity:

This kit enables the synthesis of melanin *in vitro* from natural reagents, mushroom extract rich in natural tyrosinase enzymes, and chemical reagents, pyrocatechol and tyrosine. Here we suggest performing a synthesis of melanin *in vitro* by two different techniques and studying the different kinetic parameters of these reactions.

Composition of the kit:

- A packet of catechol
 - A sachet of tyrosine
 - A sachet of tyrosinase
- Educational technical instructions available on our website.

Necessary material:

- Distilled water
- Beaker
- Hemolysis tubes

- Hotplate
 - Fresh mushrooms from Paris
 - Colorimeter and tanks
 - Stopwatch
- Conservation:
6 months at room temperature