

PRODUCT DATA SHEET

CTISkin-*Ex vivo* Adult Human Skin, Full Thickness, Fresh, Skin Disc, 12 mm Ø

Product sheet, catalog n° CTIEXVK.1



Storage temperature
2-8°C



Biosafety level
1



This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use. Use within 24 hours upon arrival. Use immediately upon arrival, if not possible, store at 2-8°C for 24 hours maximum.



CTISKIN[®] Ex Vivo Reagent tissue culture medium should be stored at 2-8°C.



General information

The product **CTISkin[®] Ex vivo** from CTIBIOTECH provides a turnkey solution to allow you to carry out your tests on fresh ex vivo Human biopsies.

Taken directly after a surgical intervention and supplied fresh with culture media created by CTIBIOTECH, this product allows you access to a study model as close as possible to *in vivo* conditions.

The original tissues were collected after informed consent of the donor complying with French Laws regulations.



Tissu Characteristics

Organism: Human (Homo sapiens)

Tissue: Skin

Location: Abdomen or other body areas (see Certificate of Analysis)

Gender: Male or Female (see Certificate of Analysis)

Age: 18 to 99 years old (see Certificate of Analysis)

Phototype (Fitzpatrick scale): I to IV (see Certificate of Analysis)

Size of biopsies: 12mm Ø

Type of preparation: Fresh

Specificities: For specific requirements such as pathology, stretch mark, etc ...

(see Certificate of Analysis)

Ex Vivo Reagent: Tissue culture media. 60mL provided per 24 well plate. Sufficient for 5 media addition at 400-500µL per well (biopsy).

Additional volumes of CTISkin® ExVivo reagent can be purchased if necessary

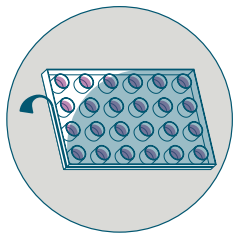
Unpacking & Storage

Check that the containers are intact and free of damage.

If tissue is not used immediately, place it at 2-8°C upon delivery.

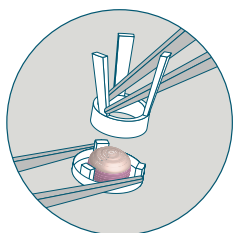
Protocol

Before using the skin biopsies for any research purpose, CTIBIOTECH recommends the following procedure :

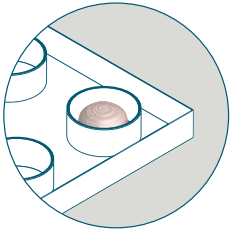


Carefully remove the grey box from the package. Remove the plates and the culture media bottles. Remove the plastic film around the plates and the neck of the bottles. Remove the white plastic film securing the lid to the plate.

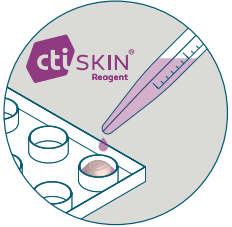
Be sure to place the plates under sterile/aseptic conditions before following the next steps. Spray the packaged plates, the culture media bottles (CTISkin® ExVivo Reagent) with 70% ethanol (or your routine disinfection solution). Under a clean and disinfected class II laminar flow safety cabinet, open the culture plate and carefully remove the transparent plastic film sealing the wells. Prevent any transport insert coming out of the wells by holding the transport inserts using sterile forceps.



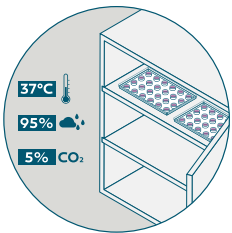
Place the provided transport inserts containing the skin disc in the bottom of a sterile culture plate or dish using sterile forceps. Using two sterile forceps, gently grasp the transport insert by the plastic surrounding the explant and place it in the bottom of a sterile petri dish.



CTIBIOTECH recommends using sterile culture inserts with a membrane mesh size of 74µM or a standard 24 well plate suitable for human tissue culture. Please make sure there is no air bubble under the culture inserts. Immediately place the explant in the center of a culture insert or culture well in the plate.



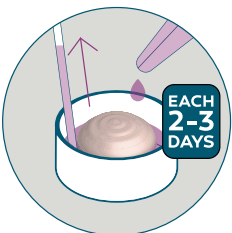
CTISkin® Ex Vivo Reagent medium should be stored between 2°C and 8°C. **BUT TAKE GREAT CARE TO** add the CTISkin® Ex Vivo Reagent medium to the samples at room temperature, using a sterile pipette. CTIBIOTECH recommends to use the supplied culture medium, additional volumes of CTISkin® ExVivo reagent can be purchased if necessary. The maximum volume of medium that can be added per well is relative to the depth of the insert and or the cell culture well format and the thickness of the skin and the thickness of the skin. For a standard 24-well plate, CTIBIOTECH recommends adding 400-500µL under the membrane, when using culture inserts, or 400-500µL at the bottom of the well, when using cell culture plates (without culture inserts). Be sure to maintain the air-liquid interface at the dermis-epidermis junction.



Upon culture set up, CTIBIOTECH recommends to leave the CTISkin® ExVivo skin biopsy at least 24 hours at 37°C, 95% relative humidity and 5% CO₂ supplemented atmosphere before use for product testing. CTIBIOTECH recommends to change the CTISkin® ExVivo Reagent medium prior to application of the products to be tested.



The biopsies can be used up to 11 days from the date of surgery (please refer to the Certificate of Analysis).



CTIBIOTECH recommends to change CTISkin® ExVivo Reagent medium every 2 to 3 days.



Used culture medium should be discarded following local procedures for human biological wastes.

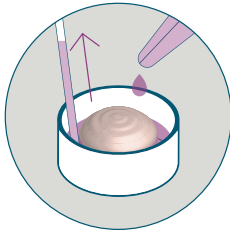
For **Topical Product Application**, follow **GUIDE 1**.

For **Systemic Product Application**, follow **GUIDE 2**.



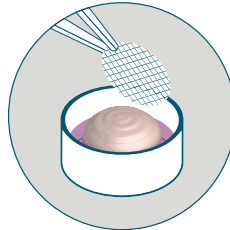
Guide 1: Topical Product Application

Perform all the following steps under aseptic conditions



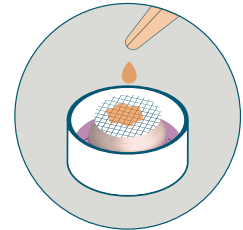
1

Change insert culture media



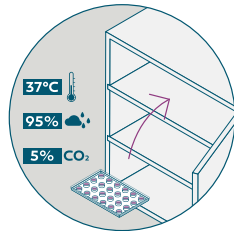
2

Place a sterile 10mm Ø gauze layer on the top of the explant



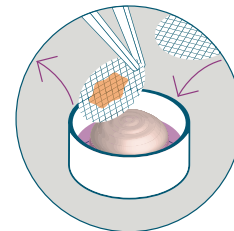
3

Apply 40 to 60 µL of testing product.



4

Replace the lid on the plate. Carefully transfer horizontally to the incubator.



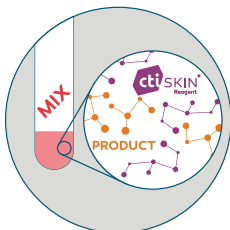
5

Change the sterile gauze for each product application.



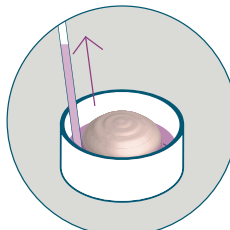
Guide 2: Systemic Product Application

Perform all the following steps under aseptic conditions



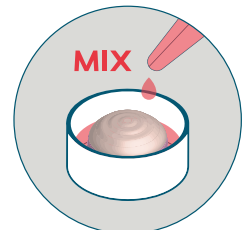
1

Mix the Ex Vivo Reagent with the testing product.
 (Ensure solubility beforehand)



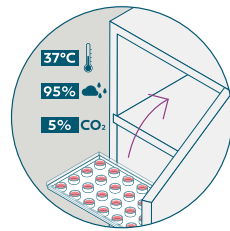
2

Remove the medium of the culture plate.



3

Add the mix to the well. Be sure to respect the air/liquide interface.



4

Replace the lid on the plate. Carefully transfer horizontally to the incubator.