

**Medical Project  
of  
Antigen/Antibody Test Kits  
in  
Tunisia**

# Objectives

- 1. To manufacture and sell antigen/antibody test kits for Covid-19 in Tunisia**
- 2. To transfer related technology and develop human resources in Tunisia**
- 3. To develop and sell test kits needed for other popular diseases in Tunisia for the future**
- 4. To build up a sustainable/profitable medical business system**

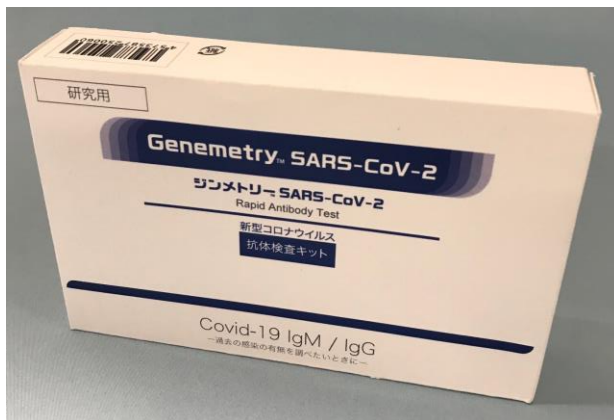
# Resources G Cube can offer

- 1. Original products  
to be packaged locally**
- 2. All the basic parts to assemble test kits  
to be procured locally step by step**
- 3. All the assembly equipment**
- 4. Experts for technical skill training**

# **Preferable Conditions for partnership**

- 1. Strong commitment to participate in the project/business**
- 2. JV with 50/50 basis subject to local regulations**
- 3. Partnership with medical universities/research institutes**
- 4. Business experience in the medical/pharmaceutical industry**

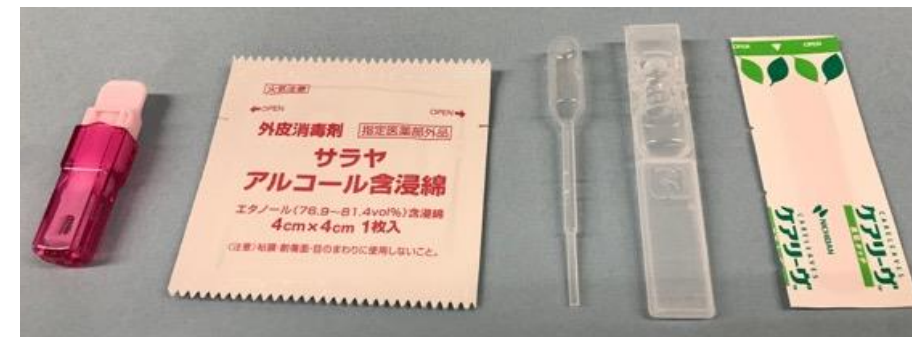
**In 15 to 20 minutes, you can identify the existence of antigen/antibody of Covid-19 by index to be appeared.**



Package



Test kit package in an aluminum sack with desiccative paper



Accessories including developing liquid, lancet, disinfectant cotton, dropper and instruction guide

**\*There is no legal requirement for the antibody test kit.**

**\*The antigen test kit is under clinical review for the government certification.**

# Example of Initial Assembly Process

## Japan



Reagent



Lancet, etc.

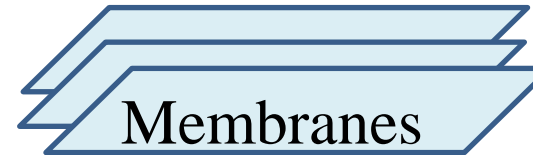


Export

## Tunisia

Test kit case

Molding case



Infiltrating reagents  
into membranes

Membranes



Packaging

Test Kit  
(Finished product)

# Various equipment for processing membranes and assembly



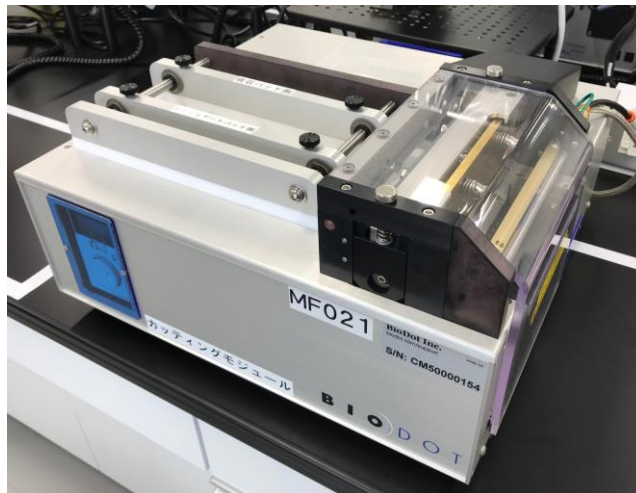
Regent line printer



Drier



Laminator



Module cutter

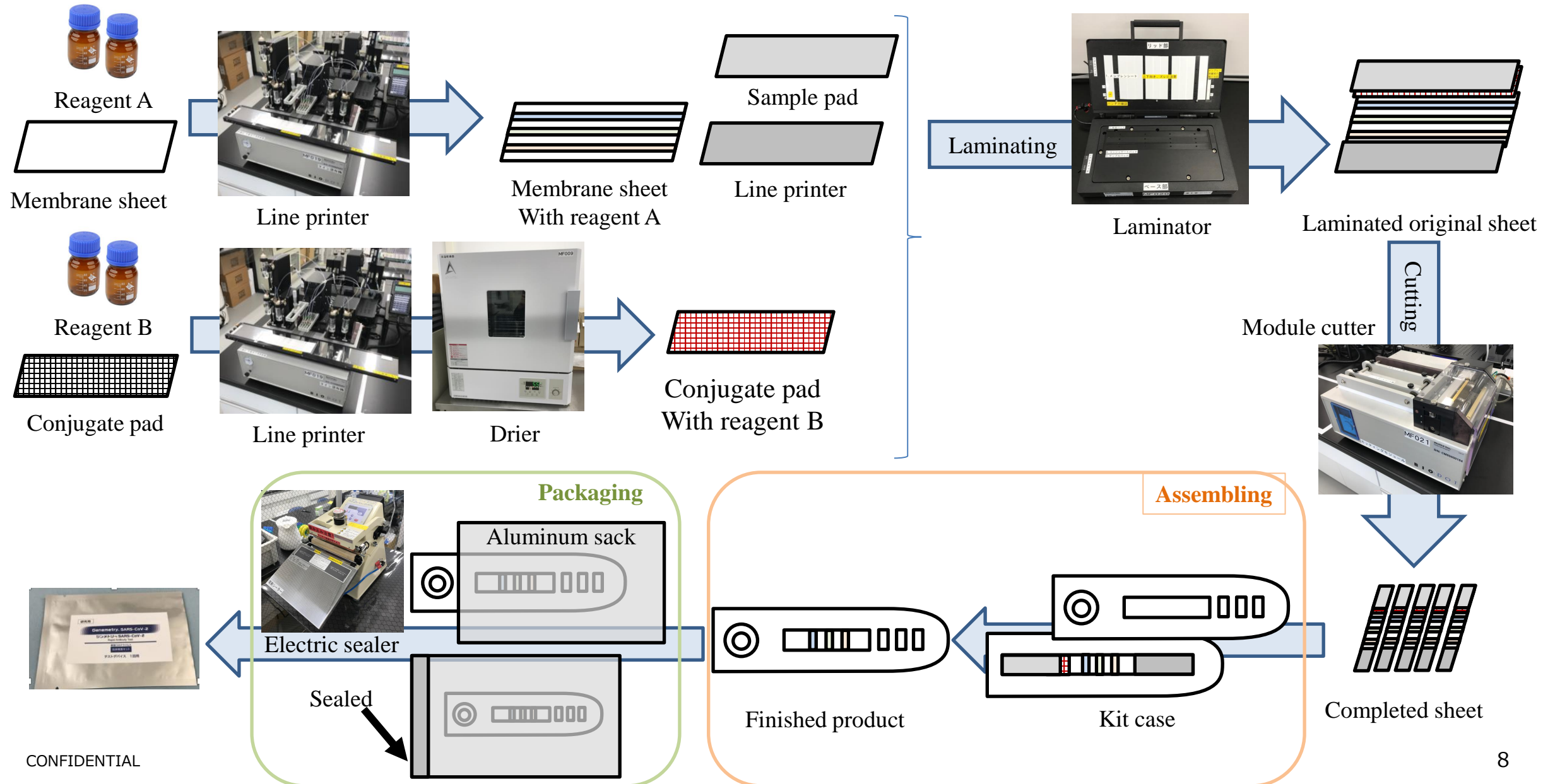


Electric sealer



Low humidity storage

# Manufacturing Process





# Cost simulation

Conditions:

- Production Quantity 10,000 (Production time: 600hr)
- US\$140,000
- Excluding utility costs

## Japan

	Unit cost in US\$
Membrane , Case	1.0
Reagent, Developing Liquid, Lancet	2.0
Assembly	2.0
<b>Total</b>	<b>5.0</b>



## Tunisia

	Unit cost in US\$
Membrane, Case	1.0
Reagent, Developing Liquid, Lancet	2.0
Assembly	$\alpha$
<b>Total</b>	<b><math>3.0 + \alpha</math></b>

1. Antigen test kit by saliva
2. Antibody test kit by blood (IgM + IgG)

## Antigen

Positive



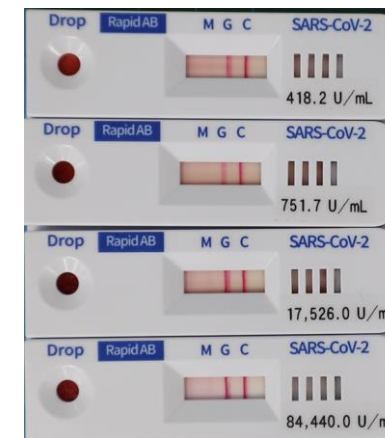
Negative

Positive conformity: 67%

False positive: 0%

Negative conformity: 100%

## Antibody



Positive conformity: 100% (IgG)

False positive: 0%

Negative conformity: 100%