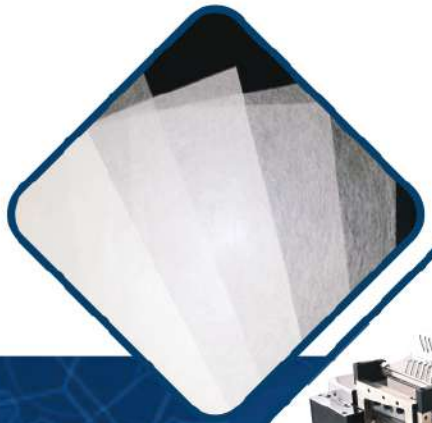
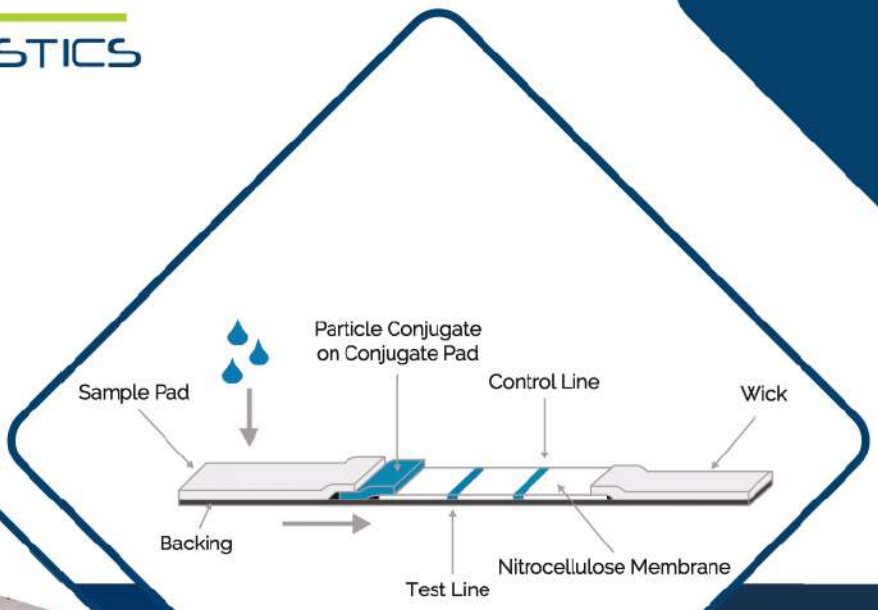
FUTURECARE DIAGNOSTICS





PRODUCT CATALOGUE

- IVD RAW MATERIALS
- PRODUCTION MACHINES
- PLASTIC CONSUMABLES
- PRODUCT DEVELOPMENT SERVICES

Product Catalogue

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COMPANY INTRODUCTION

FutureCare Diagnostics (FCD), founded in 2014, is a leading manufacturer and supplier of supporting materials and equipment for rapid diagnostics industry. We design, develop, manufacture, and market raw materials and equipment which meets and exceeds the quality requirements of IVD industry. Our technical staff has extensive experience specializing in understanding customer's requirement and offering the appropriate product.

In a very short span of time, FCD has become the registered vendor of most of the domestic IVD manufacturing companies and expanding its business in many other countries. FCD is continuously moving towards building faster and cost effective solutions which can add value to the rapid test performance. We are heading to become a total solution provider for IVD supporting components

Raw materials manufactured by FCD are used in development of lateral flow tests such as Pregnancy, Malaria, Dengue, Covid-19, Drug of Abuse, Infectious diseases, Cardiac Markers etc. They could also be used for other rapid tests such as glucose tests, urine tests, and dry chemical tests.

We guarantee excellent control over the quality, supply and consistency between lots to ensure that our customers receive the highest quality products at exceptional pricing. Customer service is an equally important factor for our business. We strive to obtain and retain our loyal customers by exceeding their expectations with unparalleled service and creating sustainable value.

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Backing Laminates

Production of a lateral flow test requires a support material on which all the components of the rapid test can be assembled. Laminates are such ready-to-use sub-assemblies of adhesive and plastic on which all the components are laminated. These are convenient to handle and can be custom designed as per the design of cassette or dipstick design and later cutting into strips to make the complete test. These backing laminates don't interfere with the performance of the immunoassays.

Backing Laminates are provided with adhesive liner on it, to allow the user to stick the other components. Slits are custom positioned based on the customer's requirement. Backing laminates are available in roll and strip form.

Types	Application	Thickness
BL-250	Lateral Flow	0.25 mm
BL-350	Lateral Flow	0.35 mm
BL-500	Lateral Flow	0.50 mm
US-350	Urine Strip (1-10 parameter)	0.35 mm

Sample Pad

Sample pad is an important component and starting point of the lateral flow immunoassay. This is where the test sample is applied on the test device. The sample pad ensures the even and controlled movement of the specimen onto the conjugate pad. It can also control the rate at which liquid enters the conjugate pad, preventing flooding of the device. When impregnated with components such as proteins, detergents, and buffer salts, the sample pad can also be used to manipulate sample movement and prevent non-specific binding,

FCD offers two types of sample pads, one is Glass fiber and other is polyester material. The non-reactive and non-binding properties of sample pads allows steady and uniform flow of analyte and prevents undesired binding of specimen components to the pad. Sample pads are formed by specific production process with special treatment which results in good hydrophilicity of the pads. Sample pads are available in roll, sheet, and strip form.

Types	Thickness	Water Absorption	Process	Material Type
SRP-01	450+/-30 µm	450+/-50 g/m^2	Untreated	Polyester
SRP-02	450+/-30 µm	450+/-50 g/m^2	Treated	Polyester
SRP-03	450+/-30 µm	450+/-50 g/m^2	Treated	Polyester
SGF-24/01	350+/-50 µm	500+/-50 g/m^2	Untreated	Glassfiber
SGF-24/02	350+/-50 µm	500+/-50 g/m^2	Treated	Glassfiber
SGF-24/03	350+/-50 µm	500+/-50 g/m^2	Treated	Glassfiber
SGF-28/01	500+/-50 µm	700+/-50 g/m^2	Untreated	Glassfiber
SGF-28/02	500+/-50 µm	700+/-50 g/m^2	Treated	Glassfiber
SGF-28/03	500+/-50 µm	700+/-50 g/m^2	Treated	Glassfiber
SGF-24/01	500+/-50 µm	700+/-50 g/m^2	Untreated	Glassfiber
SGF-24/02	500+/-50 µm	700+/-50 g/m^2	Treated	Glassfiber
SGF-24/03	500+/-50 µm	700+/-50 g/m^2	Treated	Glassfiber

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Conjugate Release Pad

Conjugate Release Pad affects the performance and stability of the test. Conjugate Pad act as a platform for assay detection conjugate to stay in dried form until the specimen passes through it. When sample flows into the conjugate pad, the detector reagent solubilizes & leaves the conjugate pad, and moves with the sample front onto the membrane.

FCD offers conjugate pads with high mechanical strength and higher absorption capacity. Our conjugate pads are synthetic materials such as fiberglass and polyester with special treatment. Pretreatment of the conjugate pad helps to ensure quick and clean release of conjugate at the proper rate and enhances its stability. Conjugate pad is available in roll, sheet, and strip form.

Types :	Composition	Thickness
CRP-01 (Untreated)	Polyester	0.35mm
CRP-02 (Treated)	Polyester	0.35mm
CGF-01 (Untreated)	Glassfiber	0.25mm
CGF-01 (Treated)	Glassfiber	0.25mm

Absorbent Pad

An absorbent pad, located at downstream end of the test, controls the sample flow along the strip. The primary function of the absorbent pad is to increase the total volume of sample that enters the test strip. This increased volume can be used to wash unbound detector particles away from the test and control lines, thereby lowering the background and enhancing assay sensitivity. Cellulose fibers are the most commonly used materials to make the absorbent pad. These have excellent absorption capacity and thus help drive the flow of test fluids across the NC membrane.

FCD offers various types of absorbent pads with different thickness and properties for dipstick as well as device formats. The key attribute of the FCD absorbent pad is the uniform thickness, absorption capacity and most important of all, uniformity of bed volume. Absorbent pads are available in roll, sheet, and strip form.

Types	Composition	Thickness
AP100	Cellulose	0.5 mm
AP250	Cellulose	0.7 mm
AP350	Cellulose	0.9 mm
AP400	Cellulose	1.1 mm
AP500	Cellulose	1.2 mm

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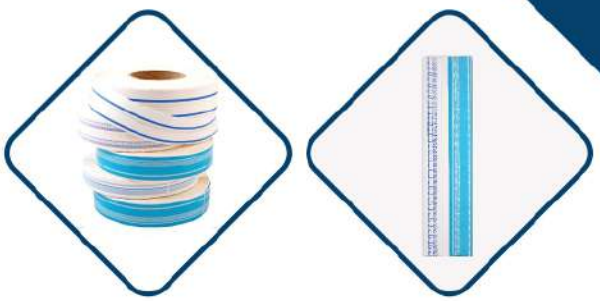
Masking Tape & Cover Tapes

Cover tapes are used to cover NC membrane in order to prevent evaporation of reagents besides offering mechanical strength to delicate test components. However, Masking Tapes are used in dipstick format to maintain good contact between the membrane-sample pad and membrane-absorbent pad. These tapes are manufactured using special adhesives which are non-reactive and non-migrating, and hence do not interfere with assay performance.

These are available in roll form and in strip form also. Different colors and sizes can be offered as per customer's requirement.



Types	Description
Masking Tape	Can be custom designed to include company logo or Test name or arrow marking.
Cover Tape	Transparent in color

Plastic Components

FCD has a rich experience in developing and manufacturing high quality and cost effective solutions for plastics consumables for production of rapid test kits including Plastic cassettes, Plastic droppers, Extraction Tube and nozzles, Ampoule and buffer vials.

Products are designed and manufactured by using best quality raw materials, latest technologies and in accordance to the international quality standards.

Custom products can be designed as per user's requirement.

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Reagent Dispenser

Many companies use our reagent dispensing machine to produce lateral flow tests. Conveyor belt based platform allows the user to obtain high throughput. Our one unit has the ability to produce up to 150 million tests per year, allowing customers with multiple systems to rapidly ramp up the production volume. Precise dispensing with positive displacement multiple syringe pumps allows the printing of one, two, or three lines on NC membrane simultaneously. User gets extremely uniform and sharp lines with no indentation on the NC membrane.

Guillotine Strip Cutter

The Strip Cutter Model SC-150 is a guillotine type cutter that can cut laminates into strips of desired width. The cutting speed is about 9000 cuts per hour. The blades are made of hardened alloy steel and are easily replaceable. The strip width can be varied from 1mm to 12mm. The machine can cut laminate of width upto 12cm.

Pouch Sealing Machine

Continuous Pouch Sealing Machine are suitable for sealing individual pouches/bags automatically. The machine has a variable temperature controller and speed control , to suit different grades of plastic materials. Two types of models are available Horizontal type and Vertical type with foot stand type. Known for their smooth functionality, high speed sealing and high hassle-free performance, offered machines are made available with an adjustable conveyor.

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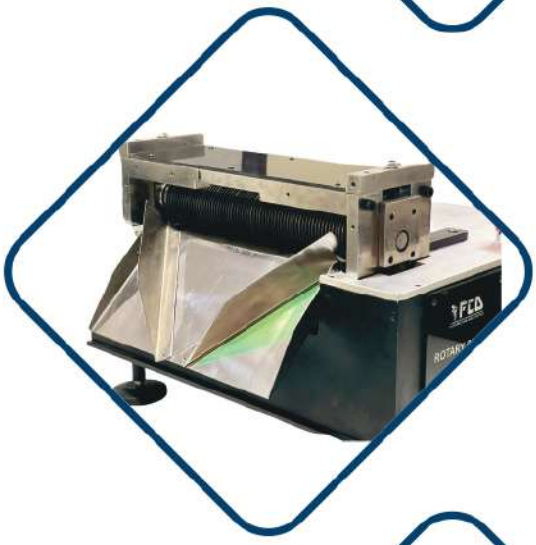
Guillotine Wide Strip Cutter

Guillotine Cutter Model SC-50 is the latest designed cutter to cut sheet or master rolls of sample pad/ conjugate pad/ absorbent pad into strips for lamination, with max cut width 300mm. It can cut master rolls (up to 300mm width) and sheets. This cutter is easy to operate and cut width & cut quantity can be set freely. This is a very rugged machine. The cutting speed is about 1750 cuts per hour. The width of the strip is also programmable from 5mm to 300mm.

Rotary Slitter

Rotary Slitter Model RS-050 is the latest designed rotary cutter to cut lateral flow or urine strip sheets into 5mm strips. It can cut sheets of up to 300mm width. This cutter is easy to operate. Machine with custom strip width can be designed as per user requirement.



Cassette Pressing Machine

Cassette Pressing Machine Model CPM-01 ensures the required pressure to close the top & bottom part of the lateral flow cassette and avoid any gap between the two halves of the kits. Feeding system is manual and cassettes are passed through the rubber roller. Pressure adjustment setting is available on roller and can be set according to the thickness of the cassette. Key features include low vibration, easy operation, sturdy design, and acrylic top cover.

FCD

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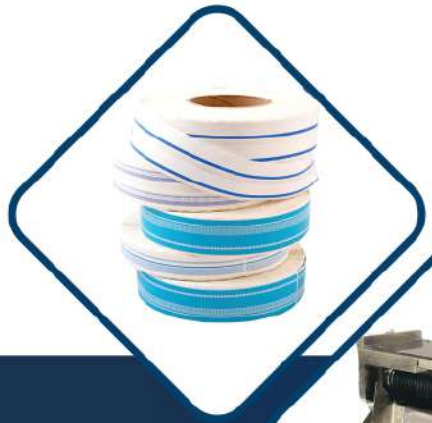

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