FORENSIC DNA TOOLS

DOLLY YANG

Forensic DNA Products
Catalogue

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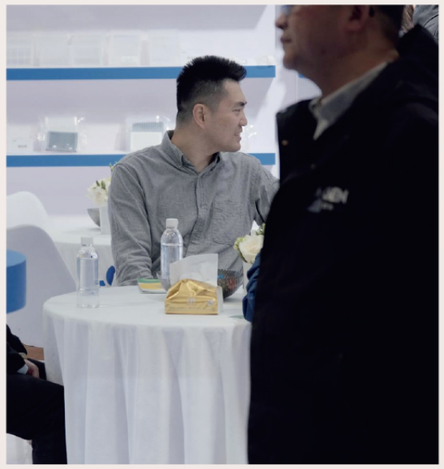
BEFORE THE PRODUCT

Go where the work happens
Then start designing

Some problems cannot be seen from an office.
Sampling, transferring and centrifuging are repeated every day. Only by standing beside the people doing the work do we see the steps that have to be repeated and the tasks that take more effort than they should.
People get used to them over time. That does not make the difficulties disappear.
We listen, pick up the tools ourselves and follow each step as it is actually carried out. A customer once asked whether one repetitive step could be simpler. We thought it was worth trying. Eight years passed between that first idea and putting the product in the customer's hands.
Then the customer returns to work. Whatever time we have spent and problems we have solved, one question matters: has the step that used to be troublesome become easier?
The next time customers pick up the tool, we hope they feel that small but real difference, and know that we have never forgotten the idea they shared.



PRODUCT 01

Two sizes
One standard

1.5 mL and 2.0 mL

For different sample volumes

An idea from the laboratory bench
During a conversation, a customer described a difficulty in sample preparation: repeatedly transferring the supernatant to separate the liquid from residual sample substrate. Each transfer meant keeping debris out while retaining as much as possible of an already limited sample.
The customer wondered whether this step could be simpler. We thought it was worth trying and began developing a substrate separation filter.
That trial took five years. The product finally took shape, but scaling up production became another hurdle. Crossing it took another three years. From the first idea to delivery, eight years had passed.
The problems changed over those years, but we kept sight of why we started: if we could spare a customer one repeated step, it was worth taking an extra step ourselves.
The idea that came from the laboratory bench finally returned to it.

A pioneer in substrate separation

DLY-FST

Substrate Separation Filter

DLY-FST-150-S · 1.5 mL

100 sets / box · 10 boxes / carton

DLY-FST-200-S · 2.0 mL

100 sets / box · 10 boxes / carton

PRODUCT 01

Thin-membrane filtration
Securely welded

Precision welding and a thin membrane prevent leakage during temperature-controlled lysis and provide efficient, consistent filtration.

Filter insert cross-section

DLY-FST

Substrate Separation Filter

PRODUCT 01

Ring-and-point support
All-round buffer contact

The retaining ring secures the membrane and works with four support points to hold up the swab head. This exposes more of the head to lysis buffer for thorough sample lysis.

Filter insert cross-section

DLY-FST

Substrate Separation Filter

PRODUCT 02

24 samples
One centrifugation

Process 24 samples simultaneously

For manual and automated workflows

Making a filter plate in a single standard format would have been simpler. But laboratories work differently. Some use manual workflows; others use automated systems.
Customers already have their own workflows. A new tool should not leave them with another problem: how to make it fit.
So our 24-well filter plate comes in universal and instrument-compatible versions.
We want customers to use it without having to make do. They still have samples to process. Making the tool fit their work is something we should think through in advance.

DLY-24-FSP-150-S

Universal version

DLY-24-FSP-A-S

Instrument-compatible version

DLY-24-FSP

24-Well Substrate Separation Plate

PRODUCT 02

Matched plate and rack
Stable centrifugation

The metal support rack matches the universal plate in size and well position. The plate and rack are loaded into the centrifuge together.
The rack secures the plate on all four sides, keeping the unskirted universal plate firmly seated during centrifugation.

Please contact us for the matching metal support rack.

DLY-24-FSP

24-Well Substrate Separation Plate

PRODUCT 03

Two sizes
Flexible sampling

10 × 10 mm and 15 × 15 mm

For collecting small amounts of shed cells from different surface areas

Adhesive cell collectors provide a more suitable method for some sampling tasks that are difficult to carry out with swabs. Yet they can still be awkward to use: some adhere well, but the sampling film is difficult to peel off afterwards; others peel easily but collect less effectively.
We want customers to collect samples well and use the tool comfortably.
Our sampling film adheres firmly during collection and peels off easily afterwards. Once removed, it curls naturally for easy placement in a centrifuge tube.
We were not the first to make one, but there is still work worth doing to make an existing tool better.

DLY-FAT-10-S

10 × 10 mm · 50 per box

DLY-FAT-15-S

15 × 15 mm · 100 per box

DLY-FAT

Adhesive Cell Collector

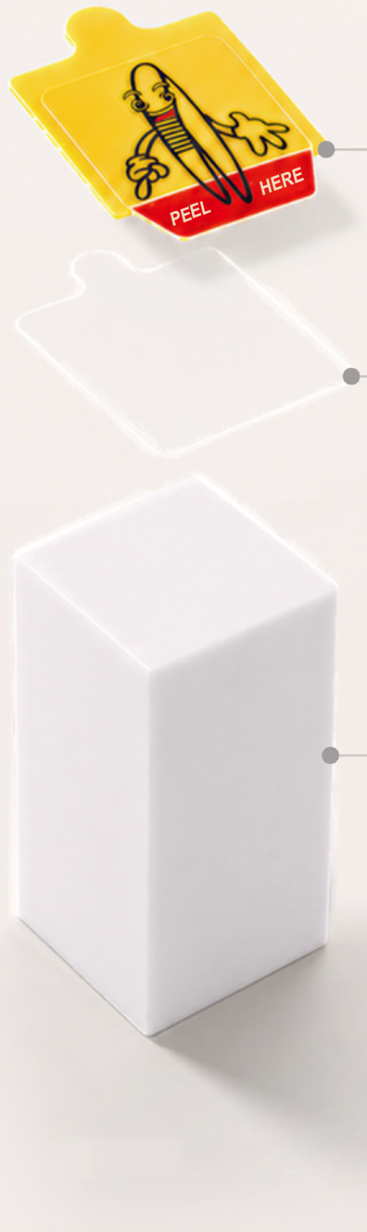
PRODUCT 03

Three layers
Each with a purpose

15 × 15 mm · Large size

Protective film, sampling film and foam base form three separate layers.

Peel off the protective film before sampling. The soft base helps the sampling film conform to the surface.



Protective film

Keeps the sampling surface clean until use. Peel off before sampling.

Sampling film

Contacts the surface to collect shed cells.

Foam base

Soft support helps the film conform to the surface.

DLY-FAT-15-S

Adhesive Cell Collector

PRODUCT 03

Soft foam base
Close surface contact

15 × 15 mm · Large size

The foam base provides soft support, helping the sampling film conform to uneven surfaces.

DLY-FAT-15-S

Adhesive Cell Collector

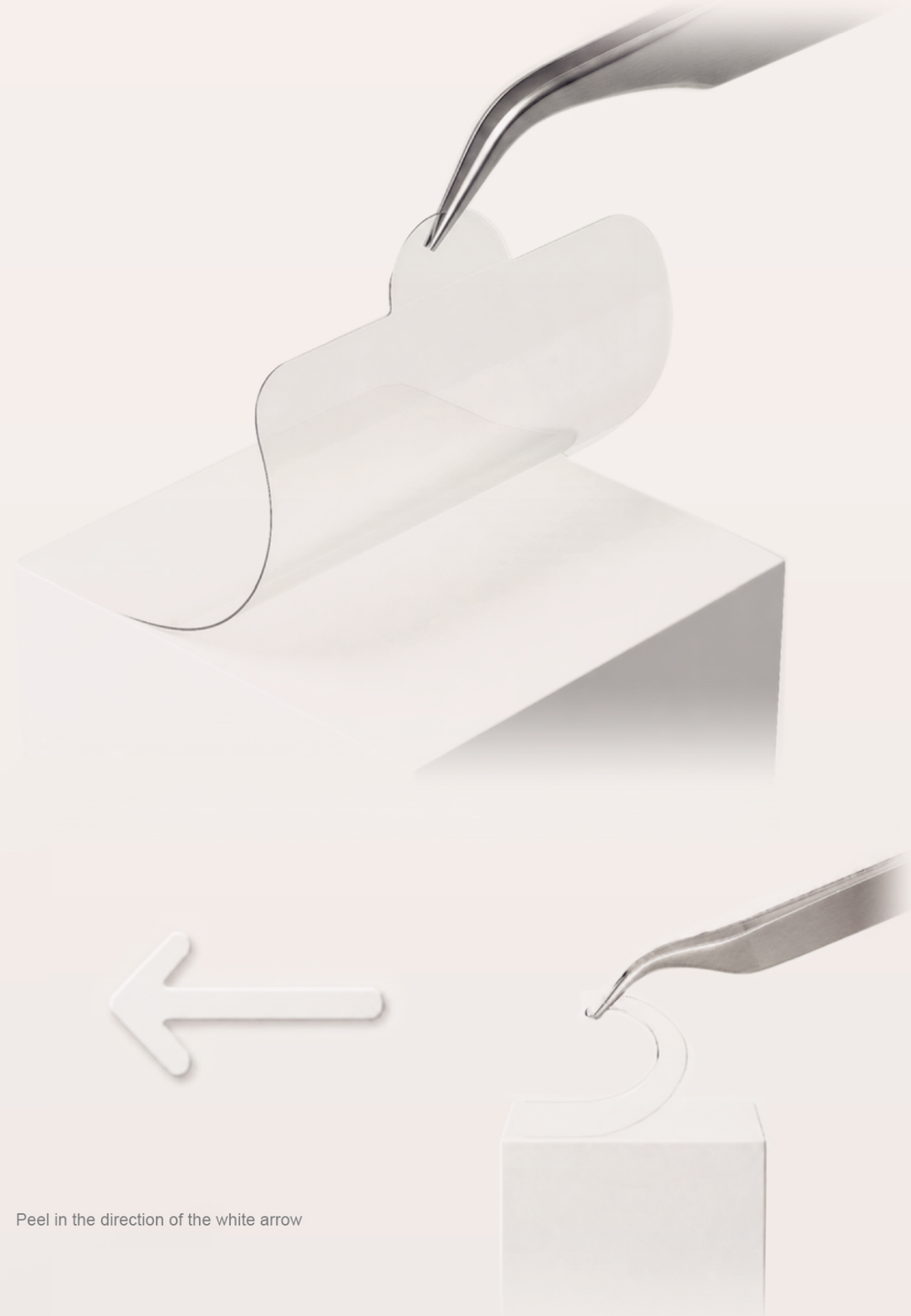
PRODUCT 03

Peel the sampling film
Transfer into the tube

15 × 15 mm · Large size

After sampling, peel off the film in the direction shown.

The film curls naturally for easy transfer into a centrifuge tube.



Peel in the direction of the white arrow

DLY-FAT-15-S

Adhesive Cell Collector

PRODUCT 03

Three layers
Clearly defined roles

10 × 10 mm · Small size

Protective film, sampling film and base form three separate layers.

Peel off the protective film before sampling. The base makes the collector easy to hold and the sample easy to transfer.

Protective film

Keeps the sampling surface clean until use. Peel off before sampling.

Sampling film

Contacts the surface to collect shed cells.

Base

For easy handling and sample transfer.

DLY-FAT-10-S

Adhesive Cell Collector

PRODUCT 03

Flexible base
Close surface contact

10 × 10 mm · Small size

The flexible base follows curved surfaces, bringing the sampling film into closer contact.

DLY-FAT-10-S

Adhesive Cell Collector

PRODUCT 04

Two tip sizes
Flexible sampling

4 mm medium tip and 5 mm large tip

The medium tip reaches narrow gaps.

The large tip suits sampling larger areas of evidence items.

Putting a used swab head into a centrifuge tube often meant reaching for scissors. After cutting off each swab head, the scissors had to be decontaminated before being used on the next sample. With swabs used every day, these steps were repeated again and again. We thought: if the swab head could be snapped off directly inside the tube, scissors would no longer be needed.
We found a suitable material that breaks readily. After sampling, place the head inside the tube and snap the shaft to complete the transfer. At this step, the scissors can finally be put down.
From cutting to snapping, only one action has changed. But forensic practitioners do it every day, and we are willing to put more thought into small things like this, so a tool they use so often feels a little easier in their hands.

4 mm · Medium tip

5 mm · Large tip

DLY-TECS

Breakaway Swab

PRODUCT 04

Snap near the opening
Transfer into the tube

Hold the collection tube steady and snap the swab near the opening.

Control the length of shaft left in the tube without using scissors.

DLY-TECS

Breakaway Swab

PRODUCT 04

Two packaging options
Choose what you need

Individually packaged pairs and bulk packs of 100

Individual packs are easy to carry for single-use sampling at the scene.

Bulk packs suit batch sampling in the laboratory.

DLY-TECS

Breakaway Swab

Individually packaged pairs

2 swabs / pack · 100 packs / bundle

DLY-TECS-2-S

Medium tip · 4 mm

DLY-TECS-2-I-S

Large tip · 5 mm

Bulk pack

100 swabs / pack

DLY-TECS-100-S

Medium tip · 4 mm

DLY-TECS-100-I-S

Large tip · 5 mm

Contents shown for illustration

PRODUCT 05

Breathable, mold-resistant Swabs kept apart

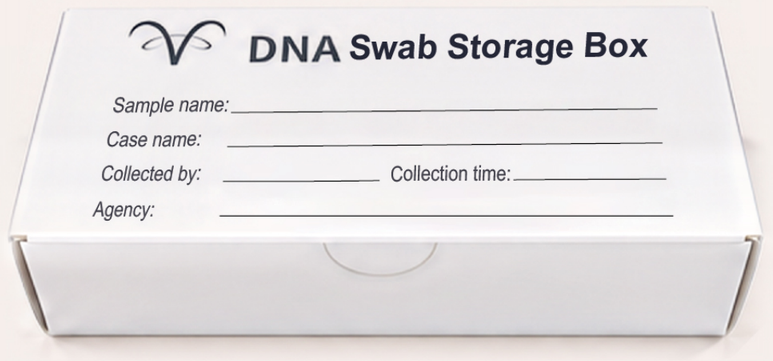
Paperboard box with a foam insert

Accommodates swabs of different sizes

Making a swab storage box is not difficult. What we put our thought into is making storage, handling and transport a little easier for the people who use it.
We considered storage and transport together when choosing the paperboard. Moisture needs to escape, and the box needs to hold its shape. We chose breathable, firm and resilient paperboard that resists damage and deformation from knocks and pressure in transit.
A resilient foam insert holds the swabs. It accommodates small differences in shaft thickness to keep them securely in place.
The result is still a simple paper box. The care taken over the paperboard and the tolerance built into the foam become details that are easy to overlook. We hope customers never have to worry about them, and simply feel that every part of this box has been thought through.

Swab Storage Box

DNA Evidence Swab Storage Box



Closed

Sample information area

Swabs not included.

Open

Foam insert holds swabs

PRODUCT 06

One-press release
Contamination control

Pointed and rounded tips

For narrow spaces and routine surface sampling

We wanted to make a swab that people hold so often a little easier to use. This time, we looked at what happens after sampling. Once the swab head was inside the centrifuge tube, the shaft still needed to be snapped.
We replaced that step with a push-button release: keep holding the shaft, gently press the end, and the head drops directly into the tube. Even snapping is no longer necessary.
Pointed and rounded tips are suited to different sampling sites. We wanted to take care of both parts of the process: a suitable tip for sampling and an easy transfer afterwards.
Our thinking cannot stop when the sample has been collected. How the head enters the tube also belongs in the design. Only when the head is in the tube and the shaft alone remains in the hand has the swab completed its job. We want to take care of the entire experience, from picking it up to putting it down.

DLY-PCS

Push-Release Swab

DLY-PCS Series

Push-Release Swab

2 per box

DLY-PCS-J-S

Pointed tip

DLY-PCS-Y-S

Rounded tip

DLY-PCS-S

Standard version

2 per pouch

PRODUCT 06

Twist to unlock
Prevent accidental release

Twist to disengage the lock before pressing to release the swab head.

DLY-PCS

Push-Release Swab

PRODUCT 06

Press the end
Release into the tube

After sampling, gently press the end.

The swab head drops directly into the centrifuge tube.

DLY-PCS

Push-Release Swab

PRODUCT 06

Press after sampling
Transfer into the tube

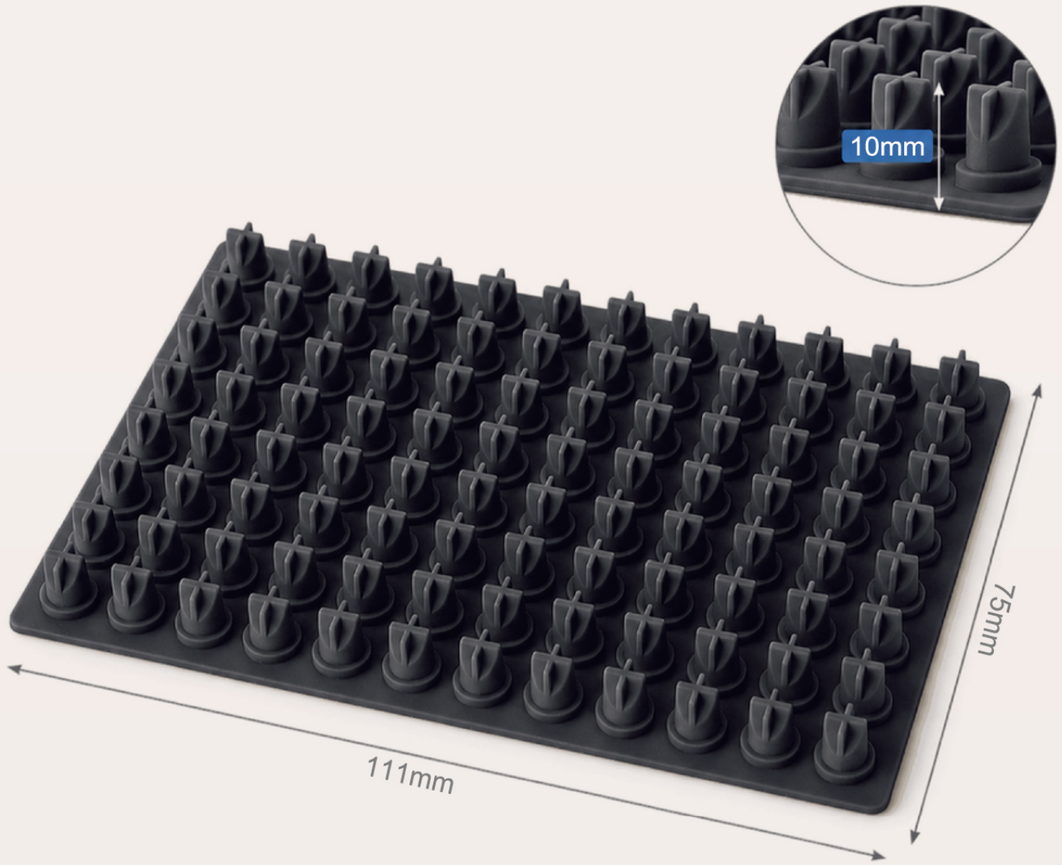
After sampling, gently press the end to release the swab head directly into the centrifuge tube.

DLY-PCS-S

Standard Version

PRODUCT 07

Leak-resistant and durable
Reliable performance



96-well plate septa

For capillary electrophoresis in DNA profiling

A plate of samples is ready. What everyone hopes for next is an uninterrupted run. This was the moment we had in mind when making our 96-well plate septa.
The samples have already been prepared, step by step. When it is time to load the instrument, the septa should inspire confidence too. Do they fit snugly over the plate? Do the openings align with the plate wells? Can the capillaries enter and withdraw smoothly? These small details all need to be considered in actual use.
Customers have already put so much work into preparing their samples. We should take equal care to make the septa do their part.
When the run is over, customers should not need to give them another thought. The septa have done their job without an extra interruption or a change to the day's plan. That is what we want them to do.

DLY-96-SEPTA-S

96-Well Plate Septa

DLY-96-SEPTA-S

10 / pack · 5 packs / carton