

# CRYO STORE



cold chain solutions

+25°



## Cooled logistics; there's nothing to it, for us

As a full service logistics partner Cryo Store delivers temperature controlled services to organizations and businesses in pharmaceuticals, bio technology, food industry and health care.

After it's establishment in 1999 Cryo Store has specialized its temperature controlled services and widened it's range. Our temperature controlled storage facilities at Handelswei I in Joure (Friesland) is equipped with all thinkable security precautions against such things as power failure, fire and burglary. On top of that we maintain special monitoring and backup facilities. Cryo Store is already ISO 14001 and ISO 9001 certified and expects to acquire its GDP certification as well in 2016.

We support our clients, inside as well as outside Europe, with finding and creating the best solutions for their cooled logistic challenges.

Cryo Store is a flexible and relatively small company, with friendly employees focused on delivering excellent service. Over the years our team of colleagues has proven to be very loyal. Consequently, we have in built a strong knowledge base as well, which supports both our team and our clients best. Cryo Store is a company we are all proud off.

**CRYO STORE** 

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## Cold Chain Solutions

Logistics is always the last link in the complete production line till delivery at the customer. This last step is often underestimated and often the weakest link. Logistics completes the quality of your delivered products or goods, is part of your reputation. Qualitative temperature controlled packaging and logistics communicate reliability and trust.

### On demand

Our on demand services provide a fast distribution of products or samples from the bulk stock that is kept in our storage facilities. Dispatch from bulk/stock is performed upon client instructions.

All outbound packages are provided with all official documents and comply with all international instructions and rules to guarantee a fast and safe distribution.



This service relieves you of repetitively packaging and sending small parcels and deal with the respective administration yourself. You only send your products or samples once to us, and we store, deliver and administer all. We offer the possibility to follow all your dispatches through our web client, but apart from that the logistics themselves are no longer your worry.

## BIO STORAGE

Cryo Store's facilities provides a choice of temperature ranges for sample storage:

- -150°C Liquid Nitrogen
- -80°C and -30°C Freezers
- +4°C Refrigerators
- Ambient

You can rent dedicated or shared storage facilities with full traceability of your samples within our facilities and even till arrival at the client.

### Safe

Our storage facilities ensure sound and safe storage of your samples. Apart from the obvious safety measures against burglary and fire, the temperatures of all storage locations, LN2 vessels, freezers and refrigerators, are continuously monitored through our validated network and equipped with a temperature alarm system. In addition, we have auto-

matic LN2 filling, CO2-backup on the -80°C, an emergency power supply and plenty of dry ice in stock. Safety is guaranteed 24/7.

Our -80°C freezers have double compressors, each capable of reaching the required temperature, as an extra safety. All freezers have CO2 backup and temperature is monitored constantly. Emergency power backup and plenty of dry ice is available.

- ✓ 24/7 security
- ✓ Emergency power
- ✓ From -196°C till ambient
- ✓ CO2 backup
- ✓ Validated monitoring network
- ✓ High end freezer equipment



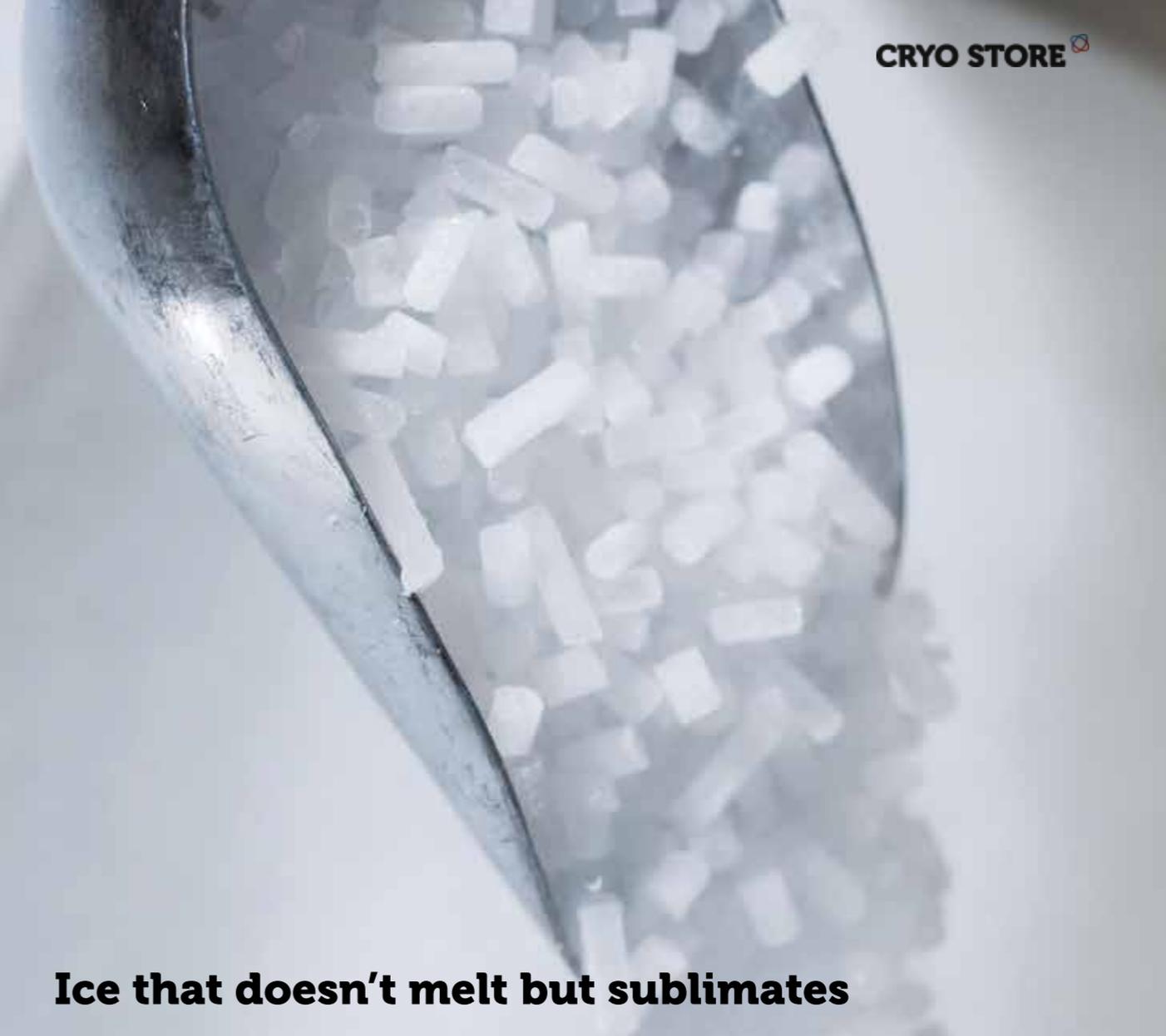
Our long term storage facilities are 100% separated from our distribution area. The distribution area is equipped with a range of distribution freezers, a kit assembly area, packing area and can only be entered by qualified and trained employees.

## FOOD SAMPLING

An English saying teaches us that “the proof of the pudding is in the eating”. You’d prefer to taste a food sample before buying an entire box or crate. In international trade the same rule applies. A client will buy on the proof, of actually proofing a sample of an entire shipment.

So, how do you entice - say - Australian to buy a container of fresh food products? By offering him a poof of the pudding in advance.

Cryo Store makes sure your food samples arrive in Sydney in perfect condition, as fresh looking and tasting as it did the moment it was checked out from our distribution centre.



## Ice that doesn't melt but sublimates

Dry ice is the solid state of carbonic acid at a temperature of -79 degrees Celsius. It's a perfect means to package products in order to keep them safely below zero degrees Celsius.

During transport dry ice gradually changes from a solid (ice) state into a gas state. This so-called

“sublimation process” leaves no residue. Dry ice not only keeps contents temperature controlled, it does so by remaining dry.

The sublimation rate (the time it takes dry ice to sublimate) depends on the level of package isolation, the size of the package and its surrounding temperature. Dry ice can maintain temperatures

below 0 degrees Celsius during relatively long periods of time, without adding energy or interference from outside. This makes a great difference in comparison to conventional, water-based cooling systems.

## CLINICAL TRIAL LOGISTICS

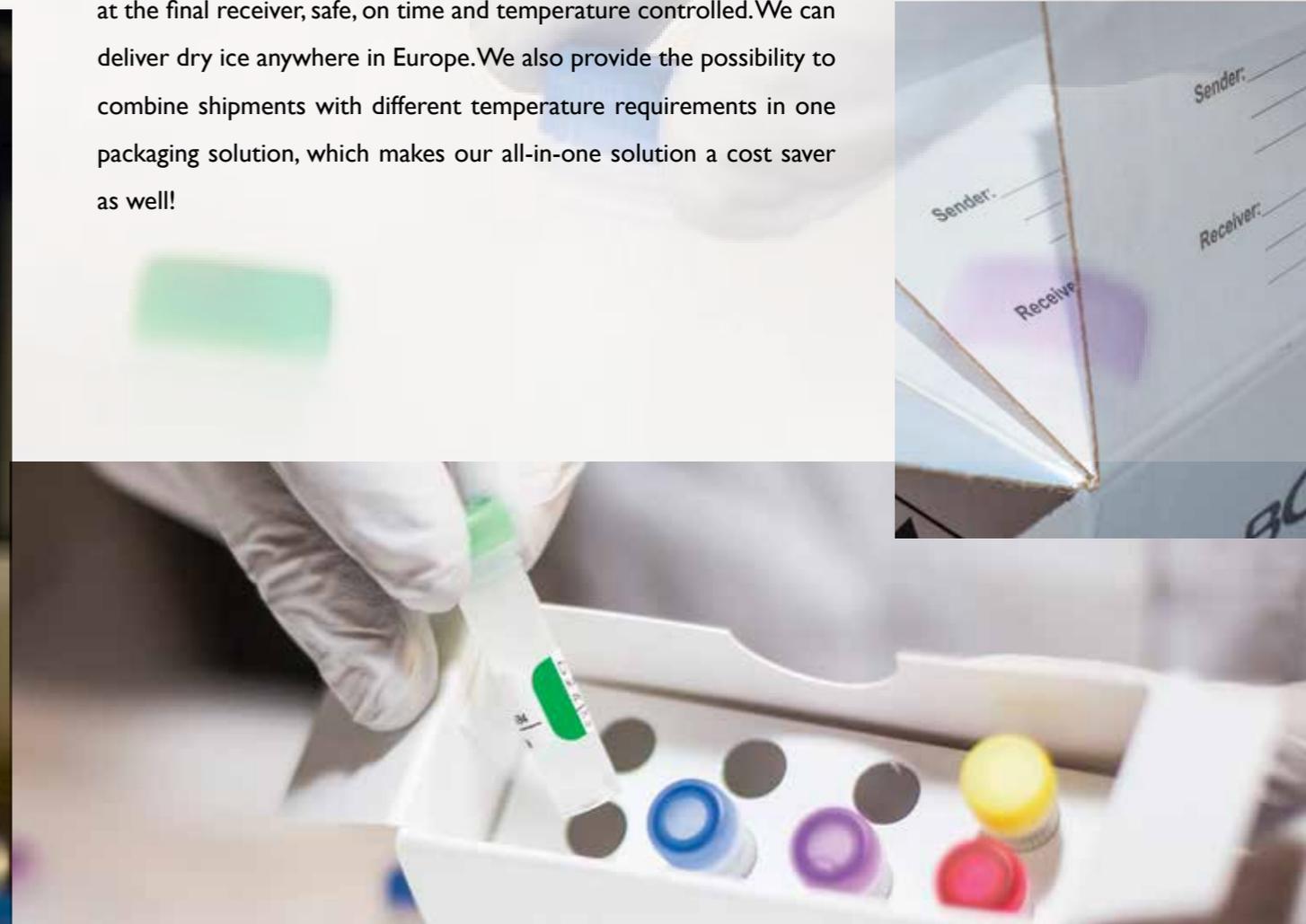
### Cryo Store's Clinical trial logistics services: our solution for your problem

Cryo Store's Clinical trial logistics services take away all logistic worries from pharma companies, hospitals and medical institutes who participate in clinical trials. Clinical trials offer serious challenges in both cold chain management as actual logistics. Not to mention all administration and safety measures that are involved in the international exchange of bio products. Whether you need to send urine, blood or biopsy samples; under ambient, refrigerated or frozen conditions, we supply the right materials to ensure proper packaging and cooling agents to keep your samples in perfect condition during transport. We also provide the dry ice. Our dry ice provisioning service combines our expertise with world class courier services for a fraction of the costs of alternative premium suppliers.

### How does it work?

You order the service through our online ordering system. Based on your request, we assemble a packaging solution, supply it with all required (cooling and monitoring) materials, labels and documents, and address it to the final receiver. This packaging is placed inside a second box, addressed to you.

After receiving the box, you discard the outer box, add your clinical samples to the inner packaging solution. Close the box and when ready for dispatch, we will have the package picked up and delivered at the final receiver, safe, on time and temperature controlled. We can deliver dry ice anywhere in Europe. We also provide the possibility to combine shipments with different temperature requirements in one packaging solution, which makes our all-in-one solution a cost saver as well!



## TEMPERATURE CONTROLLED PACKAGING

Cryo Store developed its own temperature controlled packaging series. Pre-qualified Kelvinboxes are available for different temperatures and durations. In size Kelvinboxes are available in a range from 2 to 500 liters.

<http://www.kelvinbox.com>

### Testing environment

Cryo Store aims to continuously improve its products and services. For developing its temperature controlled packaging solutions, Cryo Store has a Development & Testing unit to its disposal. In order to test how a packaging solution withstands external circumstances, we can simulate all kinds of external circumstances during transport, from (extremely) hot to (extremely) cold.

#### Specially tested for you

Some companies send their temperature sensitive goods in their own packaging. Yet often they do not really know the efficacy of these packaging solutions. Would you like to know for certain whether your box will keep your contents in perfect condition, during a 3 days period in an environment between -5 and 50 degrees Celsius, or exposure to -20 Celsius? Cryo Store can provide you with answers. Just have them tested in our research lab. You'd be among good company, since we rent out our facilities to some loyal partners who use them regularly to test things out.

## CRYO STORE PACKAGING DEVELOPMENT & TESTING

Are you looking for a specialist to help you develop your own packaging solutions? Cryo Store brings your ambition well within reach. With our knowledge and expertise, built up over the years, we can develop, validate and produce temperature controlled packaging solutions. In packaging development projects we work by order of as well as in collaboration with larger producers of packaging solutions.

In order to deliver high end temperature controlled storage and logistics services it's self evident that Cryo Store has all needed professional equipment at its disposal. Less evident, but as true, is the fact that Cryo Store is also a trusted distributor and point of sale for the same specialized types of coolers, gel packs and loggers it uses itself. And dry ice of course, the product it all started with for Cryo Store. You can order with us, and have your purchases sent to you or picked up by yourself.



## PRODUCTS

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### Marathon products

Cryo Store is official dealer for Marathon products. Marathon products cover a wide range of compact and easy to use registration and monitor systems. They track temperatures (-196°C tot 400°C), air humidity (0 -100%), CO2 (up to 30%), vibrations and 3D acceleration

We supply recorders which only monitor temperature as well as those which measure both temperature and air humidity. Recorders such as the new EDL 4S measure all mentioned variables.

<http://www.marathonproducts.eu>



### Freezers

Quality goes hand in hand with being environment conscious. Cryo Store delivers energy efficient -80°C freezers which are silent as well as low on energy usage.

Cryo Store supplies all that is required to store (temperature controlled) products, such as racks, boxes and dividers.

### Cool and freeze packs

In order to stabilize temperatures for storage and logistics we supply several types of gel packs, cool elements and eutectic plates till I / GN. The products we can offer you depend on your requirements and their availability.



C/temp-LCD. This waterproof logger measures temperatures between -35°C and 50°C and carries an 8k memory. The display offers direct insight in minimum and maximum temperatures and the measured time between safety parameters.



The EDL-4S is our newest addition to the logger range. It measures temperature, relative air humidity, CO2 and vibrations.



Temperature: +380°C to -200°C

Accuracy: 0,3°C

Air humidity: 0% to 100%

CO2 infrared sensor: 0 to 30.000 ppm

Accuracy: +/- 30 ppm +/- 5%

The EDL-4S logger can be read out by connecting it to a wifi workstation and can run on both battery and mains supply



The c/temp-USB-80C is very suitable for dispatches on dry ice, which it can survive without a problem. Together with its older brother (c/temp DLT) it is actually one of the few loggers that can.



# CRYO STORE

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