

Jetrail®



**The first automated system
for the production of serum
eye drops**

The first automated system for the production of serum eye drops



Pioneering technology.

Jettrail® is a closed system with an innovative filling method and automated sealing. This significantly **shortens the production time** of serum eye drops and **takes the pressure off your laboratory staff** in a groundbreaking new way.



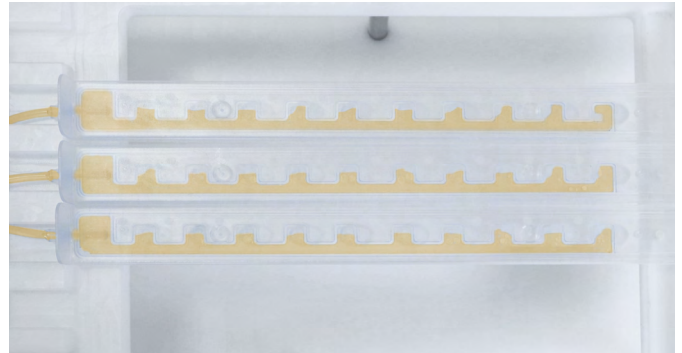
Watch video

Jetrail®

Would you like to optimize the workflows in your blood bank? Jetrail® speeds up the filling of serum eye drops and automates the sealing process.

Until now, the production of serum eye drops has been extremely time-consuming, requiring a lot of manual labor.

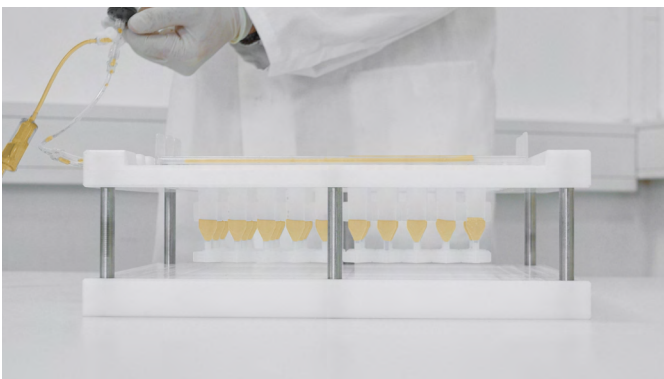
With the innovative Jetrail® system, this problem is a thing of the past. The centerpiece is the **patented rail** - a component made of plastic with an internal channel guide. It enables the ophthalmics to be filled quickly and evenly. In a groundbreaking way, it is now possible to fill serum into a large number of individual containers in just a few seconds.



Patented Jetrail® rails for an even filling of vials

The vials are filled and sealed in two simple steps.

Step 1 ————— Filling



The application is very simple. Connect the blood product to the Jetrail® Set using a sterile connection and **place the rails with the vials in the Jetrail® Rack**. Use the syringe to draw up the desired amount of serum and then **dispense it evenly and in parallel** into the vials in a matter of seconds. **The filling of the individual containers is variable** and can accommodate up to 1.5 ml. The Jetrail® Set 30, for example, distributes a total quantity of 30 ml at 1 ml per vial.

Step 2 ————— Sealing



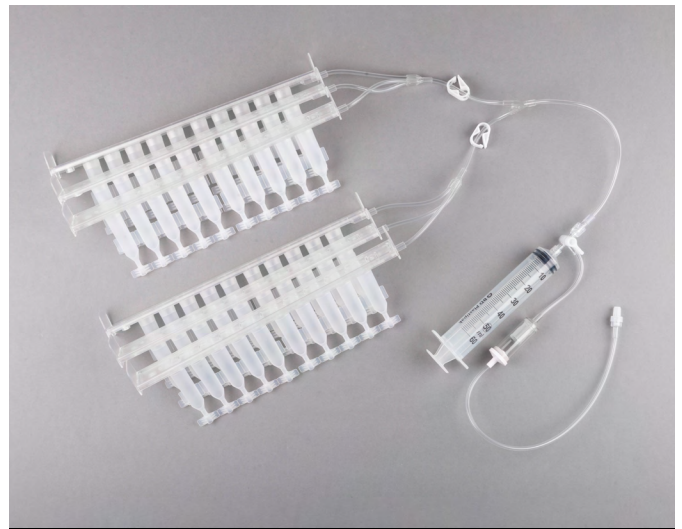
No more manual sealing. Simply insert the strips with the filled vials into the Jetrail® Sealer. **At the touch of a button**, 10 vials are sealed simultaneously within just 20-30 seconds. The containers can then be labeled and packaged immediately.

The Jetrail® system

Sets and extensions for filling the serum

Innovative filling with Jetrail®

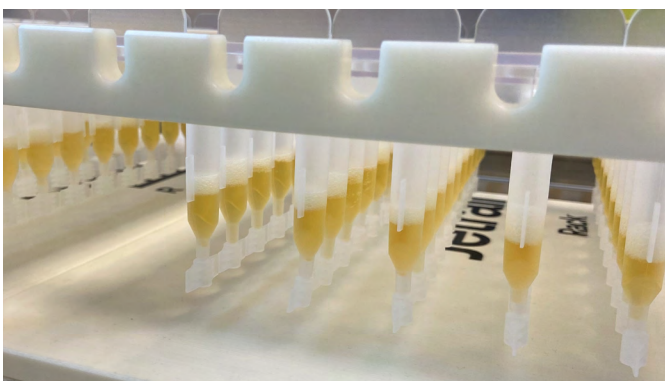
The Jetrail® system revolutionizes the production of serum eye drops thanks to its groundbreaking technology. **The Set** consists of a variable number of rails, a fibrin filter, a syringe and 10 vials per rail. With different set sizes of **up to 60** vials per set, the rails are connected directly to the serum bags in a sterile manner. This enables fast, even and residue-free **filling of the serum eye drops in just a few seconds**. Both the **filling quantity per vial and the quantity of eye drops can be perfectly customized** to the patient's needs.



Jetrail® Set 60

Additional flexibility: the **Jetrail® Extension Sets** are additional rails that allow larger quantities of serum to be filled in an evenly way. After separating the first filled rails, the Jetrail® Extensions are sterilely connected to the fibrin filter and syringe already in use. The serum remaining in the bag can then be completely filled into further vials.

Rack



Even filling

The unique design of the rails enables the containers to be filled evenly. Arranged side by side in the rack, the **vials are in a vertical and stable position**. Up to 30 vials can be filled simultaneously and evenly in just a few seconds.

Sealer



Automatic sealing

Thanks to automatic sealing with the Jetrail® Sealer, the production of serum eye drops has never been easier. Each rail of **10 vials** is placed in the sealer and automatically sealed within a few seconds **at the touch of a button**. Manual sealing of the individual containers is now a thing of the past.

1 rail = 10 vials

sealing in 30 seconds

Time and cost savings in production

Filling and sealing the vials only takes a few minutes. This increases your production capacity, significantly reduces the workload on your laboratory staff, and allows you to supply more patients with serum eye drops.

1 Advantage 1: Time factor

Jetrail® saves you valuable time and significantly reduces your production costs.

→ The sealing of the vials is automated. At the touch of a button, 10 containers are sealed simultaneously in just a few seconds.

→ Manual sealing of individual vials is completely eliminated.



→
A FEW SECONDS

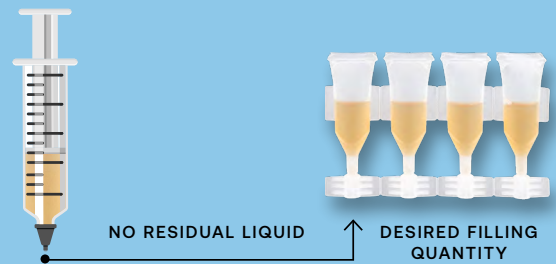
2 Advantage 2: Flexible x 2

Flexible filling volume: Fill the vials with the exact quantity required.

With the Jetrail® Set 30, for example, you can fill 30 vials in one step:

30ml in the syringe therefore corresponds to 1ml/vial

45ml in the syringe corresponds to 1.5ml/vial



Flexible configuration: You can also use the entire contents of the bag of valuable serum without discarding any residual liquid. For example, with a bag content of 40ml and 1ml/vial, you can choose the following configuration:

1 Jetrail® Set 30 with 30 vials + 1 Jetrail® Extension 10 with a further 10 vials.

All configuration options can be found on the last page.

3 Advantage 3: Safe transport

Jetrail® Bags can be used to store and cool up to 60 vials at the same time. The **integrated cooling gel** in the bag ensures that the cold chain is maintained during transport. Patients benefit from a **safe, space-saving and resealable storage option** for their serum eye drops.



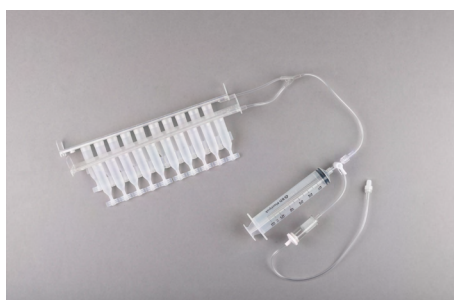
COLD CHAIN SECURED

Product features

Jetrail®

Patented rails	10 vials per rail
Packaging units Sets	Set 20 Set 30 Set 60
Packaging units Extensions	Ext 10 Ext 20 Ext 30 Ext 60
Medical device	Class 2a
Safe materials	DEHP-free, latex-free
Packaging	Sterile pouch
Shelf life of sets and extensions	36 months
Thermal stability of the vials	down to -80 °C
Filling volume per vial	flexible 0.5 ml to 1.5 ml
Sealing capacity/hour	up to 800 vials

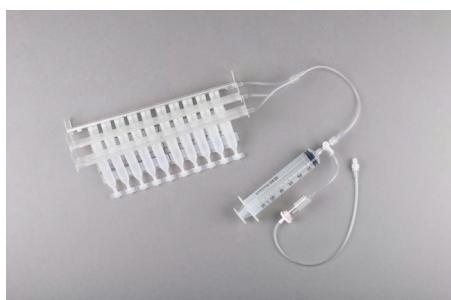
Jetrail® Set 20



20 vials

Ideal for the production of **small quantities**. The set consists of two rails with 10 vials each, a syringe and a filter.

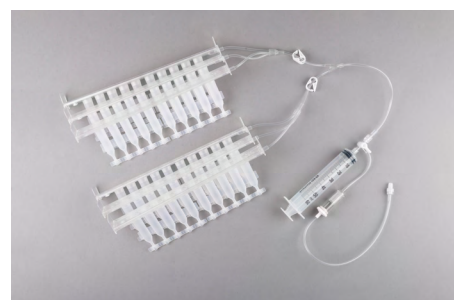
Jetrail® Set 30



30 vials

This set is ideal for preparing a **month's supply** for patients. It consists of 3 rails, each containing 10 vials including syringe and filter.

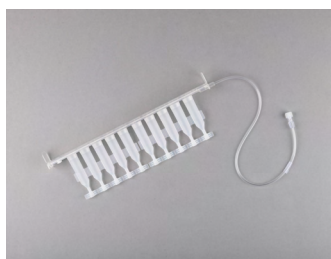
Jetrail® Set 60



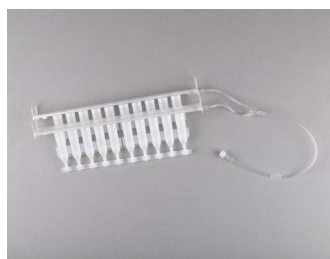
60 vials

Ideal for the rapid preparation of eye drops in **large quantities**. The set contains 6 rails with 10 vials each, including syringe and filter.

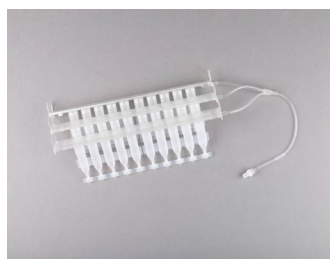
Jetrail® Ext 10



Jetrail® Ext 20



Jetrail® Ext 30



Jetrail® Ext 60



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