

# APHA ORCA

## Instruction Manual



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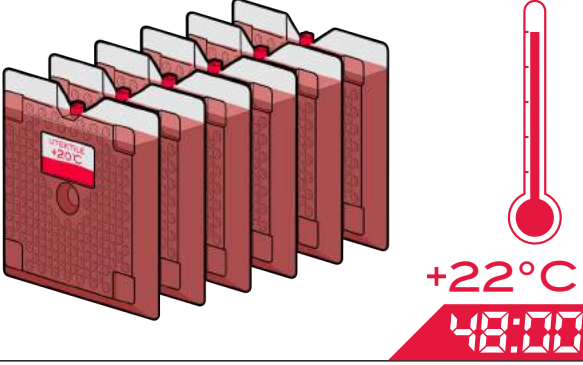
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The ORCA reusable packaging system has been designed to provide a temperature controlled transport environment which is ADR compliant for UN3373 Category B blood sample transport, when using all of the components in the configuration laid out in this document.


For further preparation protocols and assistance contact Intelsius.



## Small ORCA Preparation & Assembly



Store the ORCA Utektile bottles at  $+22^{\circ}\text{C} \pm 2^{\circ}\text{C}$  for a minimum of 48hrs before use.




Place one bottle in the base of the ORCA with front label facing upwards.

Arrange four bottles vertically inside the insulation with front labels facing inwards.

Place the A3 Pathoseal bag into the space created to line the system.

Insert the absorbent and test tube rack into the rack box and place in the A3 Pathoseal.

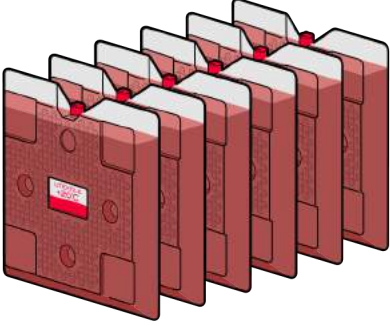


Place the remaining bottle into the system.

Close the system lid.

Secure the zip fasteners. Your system is now ready to be used.

# Medium ORCA Preparation & Assembly



+22°C  
48:00

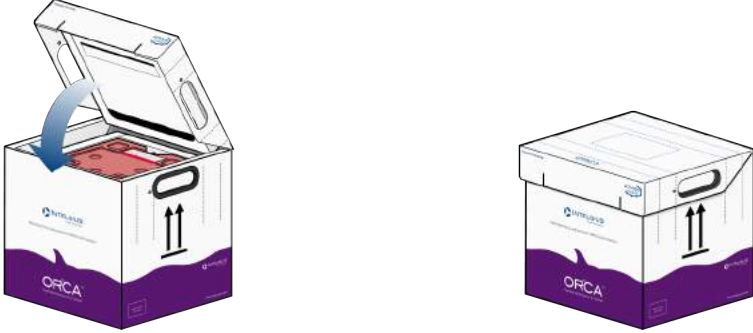
Store the ORCA Utektile bottles at +22°C ±2°C for a minimum of 48hrs before use.



Place one bottle in the base of the ORCA with front label facing upwards.

Arrange four bottles vertically inside the insulation with front labels facing inwards.

Place the remaining bottle into the system.



Close the system lid.

Your system is now ready to be used.


## Penside ORCA Use



After taking each sample, open the ORCA.

Remove the top bottle.

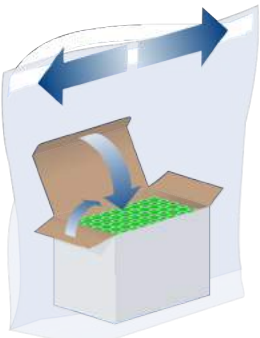
Place the sample into the rack inside the bag.



Replace the top bottle.

Close the system lid.

Close the system lid. There is no need to secure the zips between samples.



When you have taken the final sample close the inner box, expel any excess air and seal the Pathoseal bag. When taking more than 50 samples transfer the filled Pathoseal to your Medium ORCA in preparation for shipping.

## Small ORCA Shipping Preparation



After sealing the Pathoseal bag, replace the top bottle.



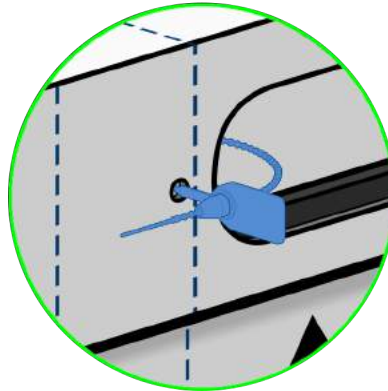
Close the system lid.



Remove the bag lid.



Remove the ORCA from the bag lifting the system by its handles.

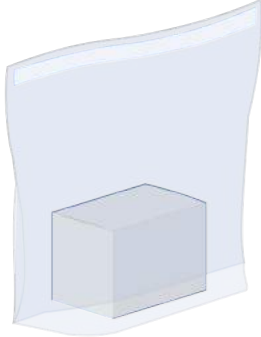




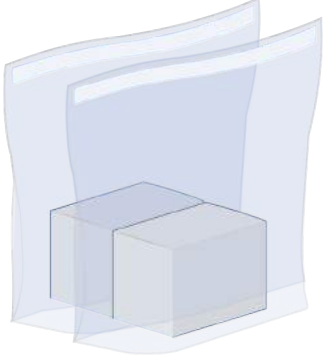
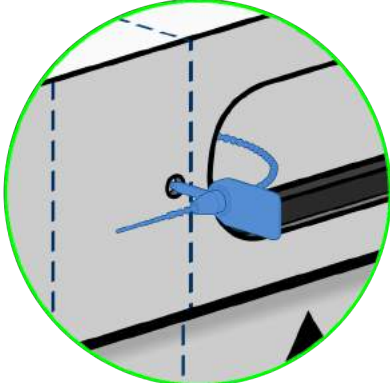

Loop the secupulls through the security holes and behind the handles. Pull tight.



Secure the lid on both sides with secupulls. The system is now ready to be shipped.

## Medium ORCA Shipping Preparation

		
<p>When you have a full or completed sample bag transfer the samples from the Small ORCA to the Medium system.</p>	<p>Open the system lid and remove the top bottle.</p>	<p>Place the full sample bag into the ORCA, replace the top bottle and close the system.</p>

		
<p>A Medium ORCA can transport two sample boxes. When full ensure all Utektile bottles are present and the system lid is closed.</p>	<p>Loop the secupulls through the security holes and behind the handles. Pull tight.</p>	<p>Secure the lid on both sides with secupulls. The system is now ready to be shipped</p>

# Cleaning & Inspection

Proper cleaning and inspection of an ORCA system can extend its lifetime and reduce the likelihood of temperature excursions during future shipments.

1. Examine ORCA Outer
  - a. Determine if there is any damage that appears to be structural such that the protection to the internal components is not compromised for future shipments.
2. Opening the lid of the ORCA system
  - a. Examine the lid instruction label to ensure it is still fully attached and legible.
  - b. Then inspect the lid VIP, as per the guidance below
3. Remove all Utektile bottles and place to one side for later inspection.
  - a. Check each panel in turn for signs of leaking
  - b. Clean and disinfect with standard hard surface detergents and disinfectants.
4. Remove inner liner
  - a. Inspect for any damage, in particular any sharp edges that may cause damage to VIPs.
  - b. Clean and disinfect with standard hard surface detergents and disinfectants.
5. Inspect VIP Assembly
  - a. Inspect each VIP, as per the guidance below
  - b. Clean and disinfect with standard hard surface detergents and disinfectants.

## VIP Inspection Guidance

Gently try to bend each panel; they should be rigid and inflexible.

If the vacuum has been lost, the panels will feel soft, flaccid and have a loose fitting surface. If this occurs the system is no longer suitable for use.

## Tube Rack

Clean and disinfect with standard hard surface detergents and disinfectants or boiling water.

**Not suitable for cleaning by autoclave.**



## Trouble Shooting

<b>Problem</b>	<b>Likely Cause</b>	<b>Solution</b>
Temperature Excursion	System lid not closed correctly	Ensure system lid is fully closed
	Incorrect preparation of Utektile bottle(s)	Refer to preparation and assembly on pages 2 & 3
	Top Utektile bottle missing	Replace Utektile bottle
	Vacuum Insulation Panel punctured	Replace Vacuum Insulation Panel
	Utektile bottle damaged and leaking	Replace Utektile bottle
Black, sooty contamination inside system	Vacuum Insulation Panel punctured	Replace Vacuum Insulation Panel
Oil like substance inside system	Utektile bottle damaged and leaking	Replace Utektile bottle

## Further Guidance

The ORCA reusable packaging system has been designed to provide a temperature controlled transport environment which is ADR compliant for UN3373 Category B blood sample transport. It is expected and assumed that the Animal and Plant Health Agency (APHA) and its employees and agents are trained in handling the hazardous blood materials involved and the consequent requirement for careful operation, transport and handling of the packaging systems used to transport the blood samples. The packaging system should be treated with similar care to any piece of scientific or laboratory equipment which might be used in and around UK Livestock Farms or in transit between farms and laboratories.

We provide below a list of important Do's and Don'ts regarding the use of the system. This list is non-exhaustive.

### DO

1. Do follow the instructions for the packaging system contained in the operating / instruction manual(s) and guide(s) provided
2. Do follow procedures established after carrying out proper risk assessments
3. Do observe safe practices in handling hazardous biological materials during sample collection and preparation for transport
4. Do observe safe practices in handling sharps / needles etc to prevent injury or damage to yourself, your colleagues, your animals, your samples and your packaging systems
5. Do move the packaging system using the provided handles in the system and/or the carrying strap on the carry bag (where used)
6. Do ensure that Vacuum Insulation Panels (VIPs) in the system appear rigid and evacuated, not floppy or puffy which might indicate a "blown" VIP that has lost its vacuum and consequently its thermal insulation properties also
7. Do ensure that all Utektile bottles are placed into the system before closure, sealing and transport to prevent impairment of the temperature protection provided by the system

### DON'T

1. Don't allow animals or people to stand on or kick the packaging system
2. Don't drop or throw the system onto hard surfaces or into and out of vehicles
3. Don't allow penetration of objects through the system e.g. needles, hooves, feet, stones, posts, rails, etc
4. Don't allow blood needles to be dropped on or into or around the system which could then penetrate components or VIPs leading to loss of vacuum of VIPs or damage to other components
5. Don't drop or throw Utektile bottles onto hard surfaces which could lead to the bottles cracking
6. Don't forget to replace all Utektile bottles into the system before closure, sealing and transport to prevent impairment of the temperature protection provided by the system
7. Don't drag the system across hard or uneven surfaces which might damage the system

The ORCA reusable packaging system is provided, where appropriate, with a warranty against manufacturing defects of components of the system. Failure to follow the instructions for the packaging system contained in the operating / instruction manual(s) and guides(s) provided will invalidate the warranty provided with the system.

# Disposal

The ORCA reusable packaging system can be returned to Intelsius for disposal as many of the components used in the construction of the ORCA are high performance composite materials and are therefore difficult to separate for recycling.

Should you wish to dispose of the ORCA yourself listed below are the component groups which can and cannot be recycled along with recommendations for their safe disposal:

## **ORCA CASE**

ORCA plastic outer carton and clear liners are constructed of polypropylene and can be recycled with other plastics. Vacuum insulation panels are currently not recyclable and should be disposed of in general waste streams.

## **UTEKTILES**

Not recyclable - dispose of in general waste streams.

## **PATHOSEAL 95 & ABSORBENT**

PathoSeal 95 bags and absorbents are consumable items and should never be reused. Dispose of in biohazardous waste streams.

## **TUBE RACKS**

Non recyclable. Dispose of in general waste streams. Items contaminated by heavy soiling should be treated as clinical/biohazardous waste and disposed of accordingly.

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