

# BIOLOGICAL SAMPLES AND ANTITUMORAL DRUGS SHIPPING

VWR<sup>®</sup>



# SHIPPING BIOLOGICAL SAMPLES AND INFECTIOUS SUBSTANCES

## Which are the rules regulating the shipment of biological samples in Europe and the world?

The World Health Organisation has published the "Guidelines for the safe transport of infectious substances and diagnostic specimens - WHO/EMC/97.3". The ADR standards regulate at European level the road transport of dangerous substances, including biological infectious specimen.

## What objectives do these standards aim to achieve?

- Ensure the safety of all personnel involved in shipping and transporting dangerous substances
- Prevent the dispersion of infectious or potentially infectious agents in the environment
- Operate in the best possible way to deliver materials to their destination timely and in optimal conditions so as to be processed safely and reliably by laboratory technicians

## ADR 2009 Classification

For the purpose of transport, infectious substances are divided into two classes A and B:

CLASS A includes all substances that expose persons or animals, otherwise in good health, coming into contact with them to the risk of permanent disabilities, need for life-long treatment or terminal illnesses. In this case such infectious substances fall within the 6.2 danger group and are identified by No. UN 2814 "substance infectious to man" or UN 2900 "substance infectious only to animals".

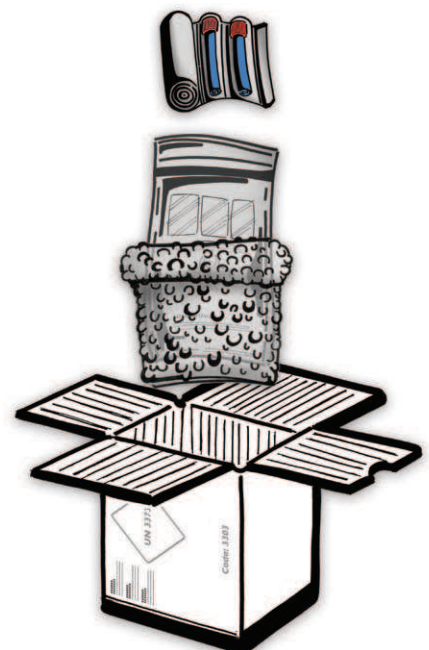
CLASS B includes those infectious substances not falling under Class A. They are identified by UN No. 3373 with the following official designation: BIOLOGICAL SUBSTANCE, B CLASS.

## What type of packing should we use?

### INFECTIOUS SUBSTANCES

When shipping infectious substance we must use a triple packaging system, consisting of an outer shipping package, a secondary container and a primary, or inner container.

- 1. Primary container:** The primary container is a watertight, leak-proof container containing the sample. If made of breakable materials it must be wrapped in a sufficient quantity of absorbent material to soak up all the fluid in case of breakage. The absorbent material must be placed between the primary and secondary container.
- 2. Secondary or intermediate container:** this is an outer leak-proof container the purpose of which is to protect the primary container. Several primary containers may be placed inside a secondary container. The primary container, or the secondary, must be able to bear, without any loss of fluid, an internal pressure greater or equal to 95 kPa (in case the transport is made in accordance with ADR standards) within a temperature range of - 40 °C to + 55 °C.
- 3. Outer shipping package:** the secondary container must be placed, in turn, into a container suitable to protect it from external agents.



Packaging materials used for shipping Class A (UN 2814 and UN 2900) and Class B (UN3373) infectious matters must be tested and certified by an authorised institute.

### **SAMPLES WITH LITTLE OR NO RISK OF CONTAINING PATHOGENIC AGENTS**

According to what indicated in the ADR 2011 Standards not all biological samples need to be treated as infectious substances.

As stated in the ADR Standards – Appendix A – paragraph 2.2.62.1.5.6, “human or animal samples that present a minimum probability of containing pathogenic agents are not subject to ADR Standards provided they are protected by a packing system that prevents any type of leakage and bears the inscription “EXEMPT HUMAN SAMPLE” or “EXEMPT ANIMAL SAMPLE”, as the case may be.

It is assumed that the packaging conforms to the above requirements if it satisfies the following conditions.

It consists of three elements:

- i) one or more leak-proof primary containers
- ii) a secondary leak-proof container
- iii) an outer packaging sufficiently strong “given its capacity, its mass and the use to which it is subject...”

In this case, therefore, it is accepted practice, even from transport outside hospital structures, to use a packaging system as described in the “Guidelines for the safe transport of infectious substances and diagnostic specimens - WHO/EMC/97.3”-.

It follows that urine or blood samples to be subject to routine analysis (glycemic index, cholesterol, hormone levels, etc.) taken from patients not affected by infectious pathologies are actually to be treated as non-infectious substances. It is left to the judgement of the physician charged with shipping to determine whether the sample may be infectious.

To learn more about the subject, the complete texts of ADR 2011 and of the “Guidelines for the safe transport of infectious substances and diagnostic specimens - WHO/EMC/97.3” should be consulted.

### **Items used for shipping biological samples**

Containers for shipping biological samples produced by International pbi are made to such standards as to guarantee the safe transportation and clinical integrity of their contents. They comply with the requirements laid out by the World Health Organisation and ADR 2011 Standards to guarantee the safety of personnel.

### **PBI brand containers are characterised by:**

- Full conformity to ADR Standards and World Health Organisation requirements
- Watertight and leak-proof properties certified by conformity tests performed in accordance with UNI EN 829:1996 European standards
- Suitable to be chemically sterilised or, for the greater part of reusable containers, autoclave sterilisable
- Biohazard logos (in Italian and English) conforming to the requirements of ADR 2011 and World Health Organisation
- Ample range of container sizes available in reusable or disposable versions

The following pages illustrate the transport systems for biological samples that best suit your requirements.

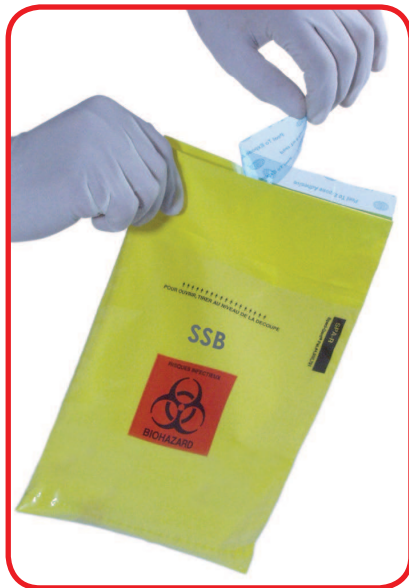


# SSB - Supersafe Specimen System

ANTI-TAMPERING BAG WITH DOUBLE POCKET FOR BIOLOGICAL SAMPLE TRANSPORT INSIDE THE HOSPITAL

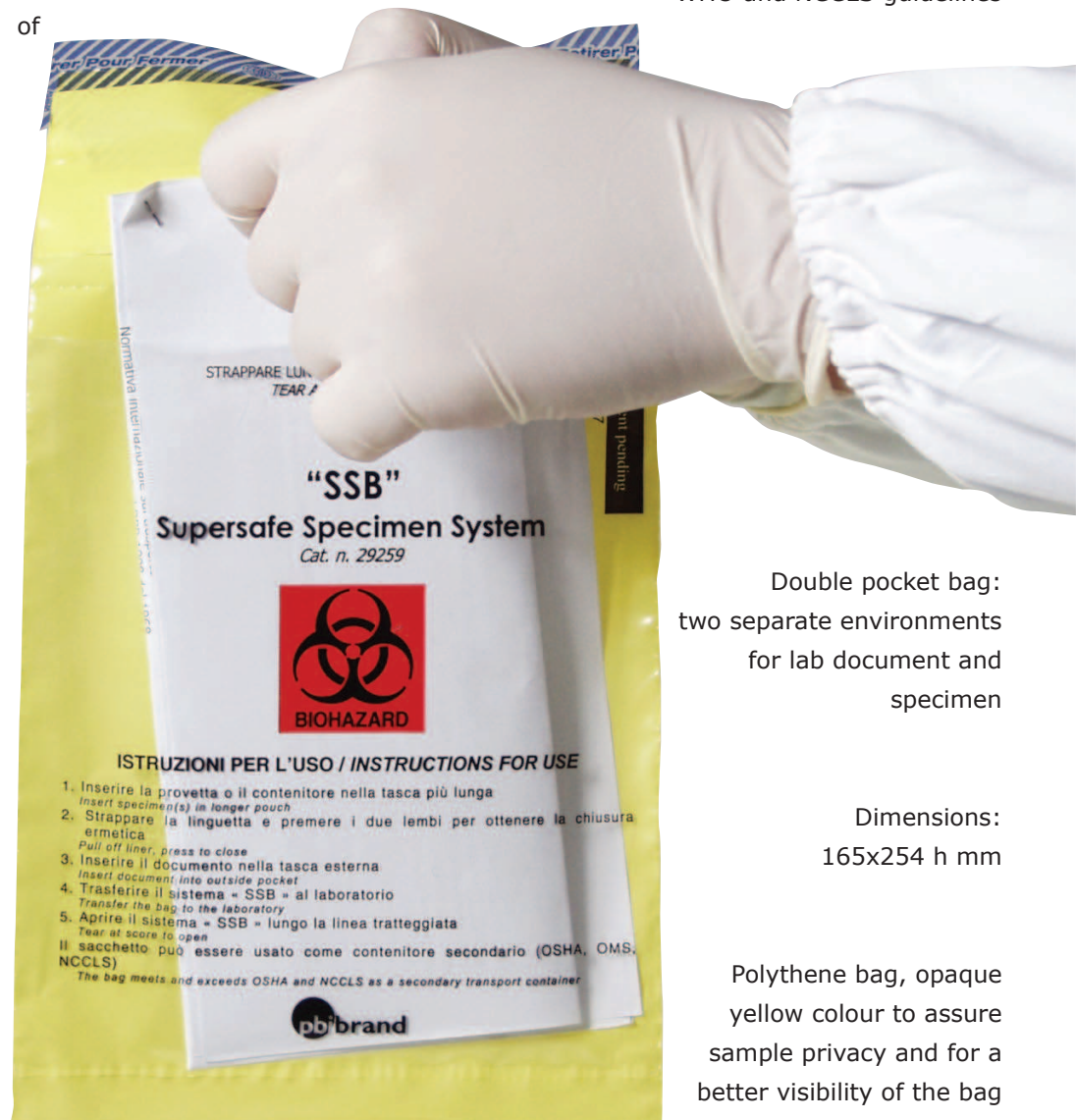
The only bag with patented chemical closure to prevent tampering and assuring respect of privacy

Adhesive closure to prevent leakage of fluids



Biosafety:  
printed biohazard logo and instruction

The specific transfer bag to meet OSHA, WHO and NCCLS guidelines



Double pocket bag:  
two separate environments  
for lab document and  
specimen

Dimensions:  
165x254 h mm

Polythene bag, opaque  
yellow colour to assure  
sample privacy and for a  
better visibility of the bag

## WHAT TO ORDER

**29259** "SSB Supersafe Specimen System" anti-tampering bag - dim.: 165x254 h mm

1000/box

# TRANS-BAG

BAG WITH DOCUMENTS POCKET FOR BIOLOGICAL SAMPLE TRANSPORT INSIDE THE HOSPITAL



Fast-zip closure for easy opening and closing

Biosafety:  
printed biohazard logo

Polythene bag for  
biological transport with  
English instruction

Sample storage  
condition legend  
printed on the bag  
(frozen, refrigerated,  
room temperature)



Double pocket bag:  
two separate environments for lab  
document and specimen

Dimensions:  
160x240 mm, transparent



## WHAT TO ORDER

**9590** "Trans-Bag" bag with pocket for documents - dim.: 160x240 mm

500/box

# SAFE-TAMPER SYSTEM

ANTI-TAMPERING DISPOSABLE BAG WITH DOUBLE POCKET FOR INTERNAL HOSPITAL BIOLOGICAL SAMPLE TRANSPORTATION



Bag with adhesive closure to prevent tampering and to preserve patient privacy

Biosafety: printed biohazard logo and instructions

Dimensions: 157x306 h mm

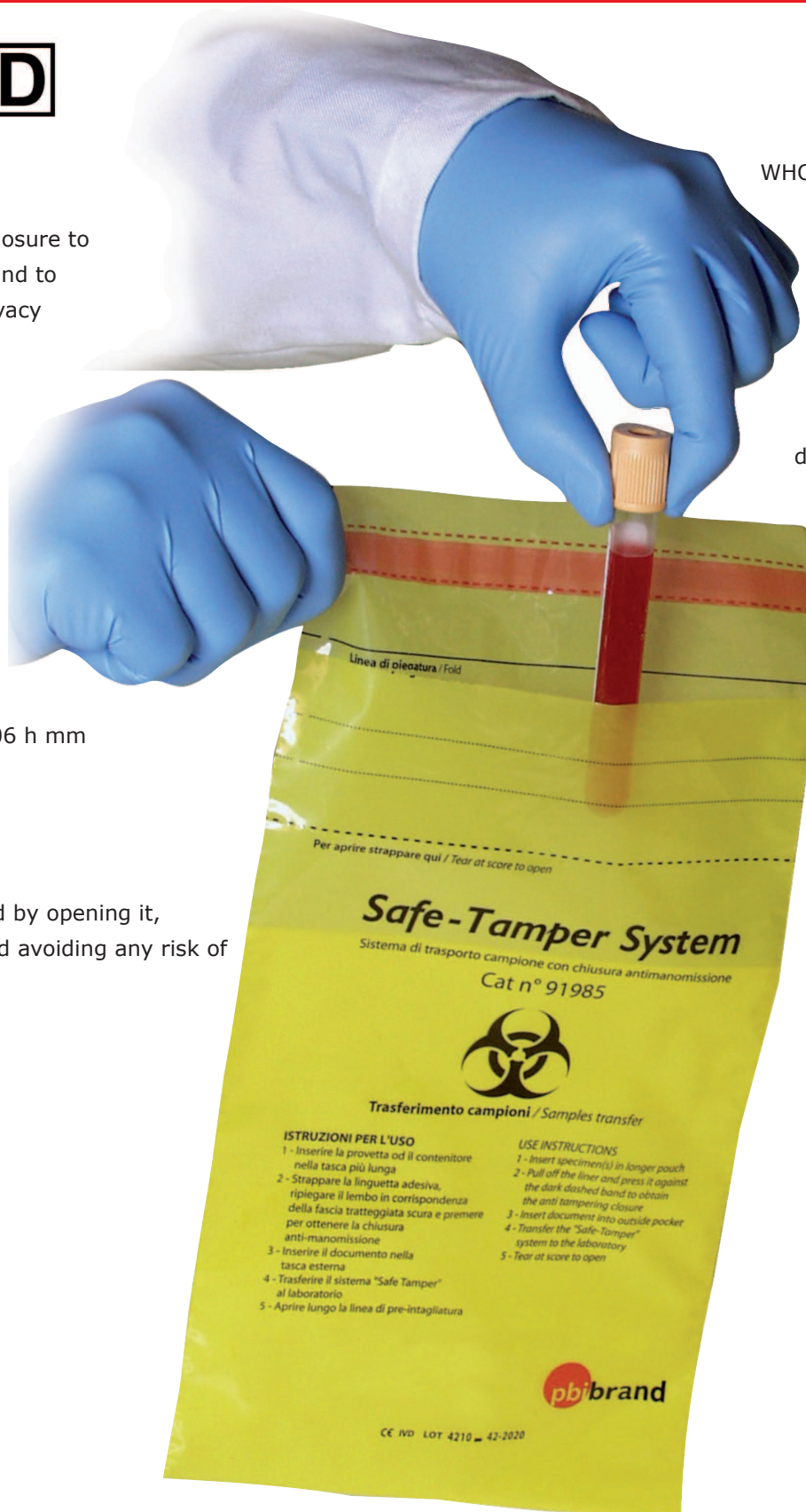
The bag is destroyed by opening it, preventing reuse and avoiding any risk of cross contamination

This bag meets OSHA, WHO and NCCLS guidelines

Double pocket bag: two separate compartments for lab document and specimen

Polythene bag, transparent yellow colour to identify leakage of fluid and for a better visibility of the contents

It is possible to customize the bag





# SAFE-TAMPER SYSTEM

ANTI-TAMPERING DISPOSABLE BAG WITH DOUBLE POCKET FOR INTERNAL HOSPITAL BIOLOGICAL SAMPLE TRANSPORTATION



## HOW TO USE



1. Insert the specimen in the longer pouch.



2. Pull off the strip.



3. Fold the flap following the "Fold Line", printed on the bag, until the two broken lines.



4. Stick the flap to the bag and press it with the fingers.



5. Insert the documentation inside the external pouch.



6. Collect the specimen tearing at score.



### WHAT TO ORDER

**91985** "Safe-Tamper System" anti-tampering bag - dim.: 157x306 h mm

500/box

# EMO-EXPRESS STRAP

## DISPOSABLE STRAP CONTAINER FOR TRANSPORT OF BIOLOGICAL SAMPLES

Conforming to guidelines of the World Health Organisation (WHO/EMC/97.3) and to UNI EN 829 standards: the EMO EXPRESS containers are to be considered as secondary receptacles: "containers made of resistant, leak-proof and water tight materials, suitable to contain and protect primary receptacles".



Leak-proof to prevent accidental outflow of biological fluids in order to guarantee the safety of transportation personnel.

Transparent and shock-proof for visual inspection of contents and for ensuring their integrity.

Complete with test-tube holder made of absorbent material holding four 16 mm tubes, four 12 mm tubes and two 30 mm tubes at the same time.

The test-tubes are therefore protected if accidentally dropped and fluids are absorbed in case of breakage of the tubes.

Disposable "Strap" type with seal tamper-proof: once closed the tube seal must be broken to access the contents. This systems ensures safety during transport.

**Additional packing in case of transport of Infectious samples, B - ADR class.** Insert the EMO-EXPRESS container inside the "Bio-Pouch" bag, code 89506, resistant to 95 kPa Attach UN 3373, code 87513 label on the external container Indicate clearly sender and receiver data as requested by ADR.



### WHAT TO ORDER

**15737** "Emo-Express Strap" disposable container - dim. diam. 132x161 h mm (2 litres)

120/box



# BIO-PROTECTION FULL SER

TRANSPARENT CONTAINER FOR TRANSPORT OF BIOLOGICAL SAMPLES (UP TO 100 SPECIMEN)

Conforming to guidelines of the World Health Organisation (WHO/EMC/97.3) and to UNI EN 829 standards: the BIO-PROTECTION FULL SER containers are to be considered as secondary receptacles: "containers made of resistant, leak-proof and water tight materials, suitable to contain and protect primary receptacles"

**Shock resistant:**

safeguards operator and contents

**Transparent:**

to constantly monitor integrity of contents

**Easy closure:**

hooks allow quick and safe closure of containers

**Leak-proof:**

fluids do not escape from container if accidentally spilled

**ADR transport:**

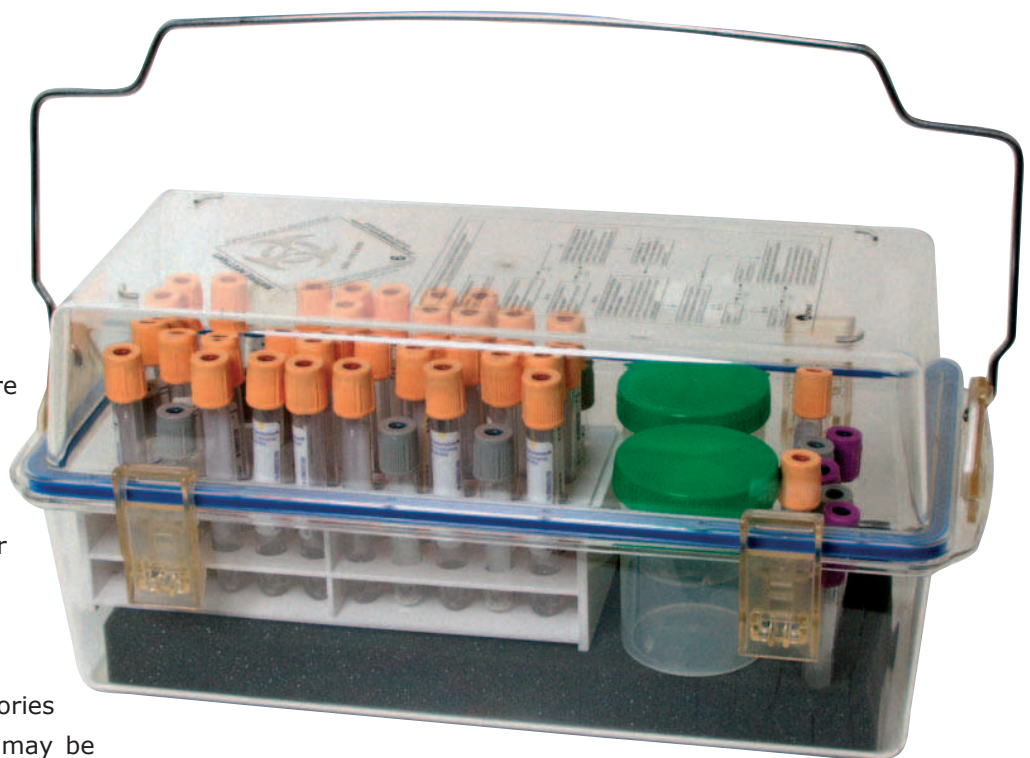
with the addition of some accessories the BIO-PROTECTION FULL SER may be used for transporting class B infectious samples

**Autoclavable and chemically sterilisable:**

to avoid cross-contamination

**Lightweight:**

reduced weight facilitates transport of carrier cases



**Versatile:**

complete with absorbent holder usable as test-tube carrier (up to 100 test-tubes) or as holder onto which test-tubes and bottles may be placed

**Operator safety:**

emergency procedures in case of accidental leakage and safety measures recommended by the World Health Organisation are indelibly printed on the containers

**WHAT TO ORDER**

**89569** "Bio-Protection Full Ser" container - with handle - for transport of up to 100 test-tubes - dim. 390x175x180 h mm 1/box

\* The container comes complete with shock-proof tube holders made of absorbent material that can double as base for one or more tube holders

# LEAK-PROOF

## TRANSPARENT CONTAINERS FOR TRANSPORT OF BIOLOGICAL SAMPLES (UP TO 180 SPECIMEN)

Conforming to guidelines of the World Health Organisation (WHO/EMC/97.3) and to UNI EN 829 standards: the LEAK PROOF containers are to be considered as secondary receptacles: "containers made of resistant, leak-proof and water tight materials, suitable to contain and protect primary receptacles".

**Shock resistant:**

safeguards operator and contents

**Transparent:**

to constantly monitor integrity of contents

**Easy closure:**

polycarbonate hooks allow quick and safe closure of containers

**Leak-proof:**

fluids do not escape from container if accidentally spilled

**ADR transport:**

with the addition of a few accessories the "Leak Proof " can be used for transport of infectious samples B - ADR Class

**Autoclavable and chemically sterilisable:**

to avoid cross-contamination


**Versatile:**

complete with absorbent holder usable as test-tube carrier (up to 180 test-tubes) or as holder onto which test-tubes and bottles may be placed

**Operator safety:**

emergency procedures in case of accidental leakage and safety measures recommended by the World Health Organisation are indelibly printed on the containers

**Stackable:**

several containers may be securely stacked upon each other


**WHAT TO ORDER**

<b>29899</b>	"Leak Proof " container - Small Type - for transport of urine tubes and coprocultures - dim. 310x460x119 h mm	1/box
<b>29898</b>	"Leak Proof " container - Medium Type - for transport of up to 180 test-tubes - dim. 310x460x175 h mm	1/box
<b>29897</b>	"Leak Proof " container - Large Type - for transport of up to 10 bottles - dim. 310x460x225 h mm	1/box

\* All containers come complete with shock-proof tube holders made of absorbent material that can double as base for one or more tube holders

# LEAK-PROOF / BIO-PROTECTION FULL SER

## ACCESSORIES



LEAK PROOF  
Containers for transporting up to 180 samples



BIO-PROTECTION FULL SER  
Container for transporting up to 100 sample

For transporting one or more "Leak Proof" and "Bio-Protection Full Ser" containers the "Trunk" outer container may be used (details given in "how to order") equipped with holders for eutectic plates in order to reduce the inside temperature during transport.

### **Additional packing in case of transport of Infectious samples, B – ADR class.**

Insert the EMO-EXPRESS container inside the "Bio-Pouch" bag, code 89506, resistant to 95 kPa. Attach UN 3373, code 87513 label on the external container. Indicate clearly sender and receiver data as requested by ADR.



### WHAT TO ORDER

<b>29899</b>	"Leak Proof" container - Small Type - for transport of urine tubes and coprocultures - dim. 310x460x119 h mm	1/box
<b>29898</b>	"Leak Proof" container - Medium Type - for transport of up to 180 test-tubes - dim. 310x460x175 h mm	1/box
<b>29897</b>	"Leak Proof" container - Large Type - for transport of up to 10 bottles - dim. 310x460x225 h mm	1/box
<b>89569</b>	"Bio-Protection Full Ser" container* - with handle - for transport of up to 100 test-tubes - dim. 390x175x180 h mm	1/box

\* All containers come complete with shock-proof tube holders made of absorbent material that can double as base for one or more tube holders

### Accessories:

<b>29900</b>	handle suitable for all "Leak Proof" containers	1/box
<b>39179</b>	"Trunk" external container - Large Type - for "Leak Proof" container without handle	1/box
<b>39180</b>	"Trunk" external container - Small Type - for "Bio-Protection Full Ser" container	1/box
<b>26281</b>	"Bio-Protection Rack" tube holder, made of aluminium, for ninety 13 mm tubes	1/box
<b>26280</b>	"Bio-Protection Rack" tube holder, made of aluminium, for eighty-four 13 mm tubes	1/box
<b>16938</b>	"Bio-Protection Rack" tube holder, made of aluminium, for sixty-six 13 mm tubes and twenty 16 mm tubes	1/box
<b>16937</b>	"Bio-Protection Rack" tube holder, made of aluminium, for six 55 mm bottles, eight 25 mm bottles, fourteen 13 mm tubes	1/box
<b>89434</b>	"White- Rack" tube holder, made of ABS, for fifty 13 mm tubes	12/box
<b>16191</b>	"Round- Rack" tube holder, made of ABS, for fifty 17 mm tubes	20/box
<b>88733</b>	Soft "SPONGY" shock-proof holder (enclosed in "Bio-Protection Full Ser" Containers)	10/box
<b>88734</b>	Soft "SPONGY" shock-proof holder - for hundred and eighty 13 mm tubes (enclosed in "Leak Proof" Containers)	10/box
<b>9372</b>	"Fresh" eutectic plate for low temperature transport	1/box
<b>89570</b>	adhesive label for transport of antitubercular drugs bearing the inscription "BEWARE ANTITUBERCULAR DRUG CONTENTS HANDLE WITH CARE"	100/box
<b>89571</b>	label "Exempt Human Sample"	100/box
<b>17656</b>	personalised with customer logo and inscriptions "Leak Proof" etching	50/box



# BIO-CARRIER

## CONTAINER FOR TRANSPORT OF BIOLOGICAL SAMPLES

Conforming to guidelines of the World Health Organisation (WHO/EMC/97.3) and to UNI EN 829 standards: the BIO-CARRIER containers are to be considered as secondary containers: "containers made of resistant, leak-proof and water tight materials, suitable to contain and protect primary containers".

Foldaway handle for easy stackability of several units

Customizable with own data/logo



Shock-proof construction of lightweight material

Equipped with special seal to guarantee air tightness in conformity with safety standards

Tamper-proof lockable with padlock or seal

Completely removable lid to facilitate cleaning

Lugs to facilitate stacking

"Biological Risk" logo conforming to current directives

Container body etched with World Health Organisation emergency procedures to follow in cases of accidents during transport

# BIO-CARRIER

CONTAINER FOR TRANSPORT OF BIOLOGICAL SAMPLES



Storage compartment accessible from lid: it can carry syringes, empty tubes, gloves, etc...



Complete with absorbent holder usable as test-tube carrier (up to one hundred 13 mm test-tubes or eighty 16 mm test-tubes).

Using two absorbent holders the carrying capacity is doubled



For external transport of "Bio-Carrier" the "Trunk" container may be used; equipped with holders for eutectic plates in order to reduce the inside temperature during transport.

## Additional packing for "Bio-Carrier" in case of transport of Infectious samples, B - ADR class

Insert the tube holder inside the "Bio-Pouch" bag, code 89506, resistant to 95 kPa

Attach UN 3373, code 87513 label on the external container

Indicate clearly sender and receiver data as requested by ADR



### WHAT TO ORDER

<b>23144</b>	"Bio-Carrier" case - standard size - dim. 394x216x229 h mm	1/box
<b>24761</b>	"Bio-Carrier" case - super size - dim. 394x216x305 h mm	1/box
<b>91078</b>	"Bio-Carrier" case - extra large size - dim. 453x302x225 h mm	1/box
<b>91683</b>	"Bio-Carrier" case - mini size - dim. 340x190x120 h mm	1/box

### Accessories:

<b>24762</b>	"Spongy" shock-proof holder - for 100 tubes and ten 61 mm diam. bottles	10/box
<b>89434</b>	"White- Rack" tube holder, made of ABS, for fifty 13 mm tubes	12/box
<b>16191</b>	"Round- Rack" tube holder, made of ABS, for fifty 17 mm tubes	20/box
<b>16937</b>	"Bio-Protection Rack" tube holder, made of aluminium, for six 55 mm bottles, eight 25 mm bottles, fourteen 13 mm tubes	1/box
<b>16938</b>	"Bio-Protection Rack" tube holder, made of aluminium, for sixty-six 13 mm tubes and twenty 16 mm tubes	1/box
<b>26281</b>	"Bio-Protection Rack" tube holder, made of aluminium, for ninety 13 mm tubes	1/box
<b>26280</b>	"Bio-Protection Rack" tube holder, made of aluminium, for eighty-four 13 mm tubes	1/box
<b>39180</b>	"Trunk" external container - small Type for "Bio-Protection Full Ser" container	1/box
<b>9372</b>	"Fresh" eutectic plate for low temperature transport	2/box
<b>23346</b>	custom made name on case side - for "Bio-Carrier" case	50/box
<b>89571</b>	label "Exempt Human Sample"	100/box

All "Bio-Carrier" come complete with shock-proof tube holders made of absorbent material that can double as base for one or more tube holders.

# TRUNK

## INSULATING WATERPROOF CARRIER FOR TRANSPORT OF SECONDARY CONTAINERS FOR BIOLOGICAL SAMPLES

Conforms to the Guidelines of the World Health Organisation (WHO/EMC/97.3): the TRUNK carriers are to be used as: "external container into which secondary containers are placed"

### Disinfectable:

with water solution of the most common disinfectants

### Easy carriage:

lightweight and provided with shoulder strap for easy transport of samples

Insulation, light semi rigid structure with fast rip-open closure system

Emergency procedures and safety instructions indelibly printed on lid

Internal holders for eutectic plates in order to allow transportation at refrigerated temperature over short distances

### Documents pocket:

to hold samples cards



### WHAT TO ORDER

<b>89932</b>	"Trunk" external container - Mini Type - dim. 200x160x180 h mm	1/box
<b>39180</b>	"Trunk" external container - Small Type - dim. 420x280x370 h mm	1/box
<b>39179</b>	"Trunk" external container - Large Type - dim. 500x400x290 h mm	1/box
<b>91303</b>	"Trunk" external container - Extra Large Type - dim. 500x350x540 h mm	1/box



# ERMETICO

## SAFETY SYSTEM TO TRANSPORT BIOLOGICAL SAMPLES

Conforms to the Guidelines of the World Health Organisation (WHO/EMC/97.3): the ERMETICO carriers are to be used as: "external container into which secondary containers are placed".

### Leak proof:

ideal to transport biological samples, pathogenic material, etc. from the sampling place to the analysis laboratory

### Autoclavable

Anodised aluminium construction, carrying handle and shoulder strap: light and easy to transport

To better protect the samples it is possible to use 2 extractable trays or 2 "Bio-Protection" container

4 independent adjustable traction hooks to assure perfect closure

Customizable with your company name

### Conforms to Safety Guidelines

#### **Additional packing in case of transport of Infectious samples, B - ADR class**

Insert the tube holder inside the "Bio-Pouch" bag, code 89506, resistant to 95 kPa

Attach UN 3373, code 87513 label on the external container

Indicate clearly sender and receiver data as requested by ADR



### WHAT TO ORDER

<b>12029</b>	"Ermetico" Case - inner dimensions: 391x230x360 h mm - overall dimensions: 405x245x365 h mm	1/box
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#### Accessories:

<b>18752</b>	"Ermetic-Rack" holder - made of light alloy - autoclavable - designed for "Ermetico" case - it is possible to stack 2 units	1/box
<b>18748</b>	"Protezione" protection system - sealing closure	1/box
<b>18749</b>	"Sicuro" seal - for protection system	1000/box
<b>15244</b>	"Bio-Min-San" label	100/box
<b>15441</b>	"Biohazard-T" label	100/box
<b>18770</b>	identification code for the printing system	1/box

# BIOSAMPLE

## INTEGRATED SYSTEMS FOR SHIPPING “B CLASS” INFECTIOUS SAMPLES THROUGH EXPRESS COURIER SERVICES

When shipping infectious biological substances, the class of the infectious substance must be specified. These substances are divided into two categories, that is:

**Class A:** substances that expose persons or animals, otherwise in good health, coming into contact with them to the risk of permanent disabilities, need for life-long treatment or terminal illnesses

**Class B:** infectious agents that do not fall under Class A

### integrated system consisting of:

- cardboard box bearing the UN 3373 logo (external package)
- high density polythene bag, resistant to 95 kPa with tamper-proof closure (secondary container)
- test-tube holder made of absorbent material, size 115x210 mm
- adhesive label to seal the box
- instructions manual

### “Biosample 1” type for class B infectious agents:

each bag may contain up to 4 tubes and each box may hold up to 4 bags (16 tubes)

### “Biosample 2” type for class B infectious agents:

each bag may contain up to 8 tubes and each box may hold up to 4 bags (32 tubes)



### WHAT TO ORDER

<b>87210</b>	“Biosample 1” integrated system - complete with package (dim. 246x185x90 mm), tamper-proof bag (dim. 175x230 mm), absorbent tube holder and label (140x25 mm)	10/box
<b>87219</b>	“Biosample 2” integrated system - complete with package (dim. 318x276x110 mm), tamper-proof bag (dim. 310x310 mm), absorbent tube holder and label (158x25 mm)	10/box

### Accessories:

<b>86767</b>	shock-proof test-tube holders - cap. 120 mL - dim. 115x210 mm	1/box
<b>87157</b>	supplementary secondary container - includes tamper-proof bag - dim. 175x230 mm - for code 87210	1/box
<b>87220</b>	supplementary secondary container - includes tamper-proof bag - dim. 310x310 mm - for code 87219	1000/box
<b>87212</b>	extra label - for sealing the box - dim. 140x25 mm - for code 87210	100/box
<b>87217</b>	extra label - for sealing the box - dim. 158x25 mm - for code 87219	100/box

# SAFE TA

## CONTAINER FOR ANTIBLASTIC AND CYTOSTATIC ANTITUMORAL DRUGS TRANSPORT

Leak proof container according to safety guidelines for antiblastic and cytostatic antitumoral drugs transport

Made of transparent polycarbonate, autoclavable

High transport capacity

The different trays (accessories) allow the transport of 150-250-500 mL bottles and syringes of antitumoral drugs for phlebotoclysis

With silicone gasket to grant airtight closure, 4 closure hooks made of stainless steel

Complete with absorbent material

Cover with handle, stackable

The external container with cooling system (accessory) allows to transfer the antitumoral drugs outside the hospital



### WHAT TO ORDER

<b>91002</b>	small size - dimension: 295x270x145 h mm	1/box
<b>91003</b>	medium size - dimension: 390x230x173 h mm	1/box
<b>91006</b>	large size - dimension: 500x285x225 h mm	1/box

### Accessories:

<b>91004</b>	upper tray for code 91003 - transparent - to transport antitumoral drugs in syringe	5/box
<b>91005</b>	lower tray for code 91003 - transparent - to transport antitumoral drugs in 150-250-500 mL bottles	5/box
<b>91007</b>	upper tray for code 91006 - transparent - to transport antitumoral drugs in syringe	5/box
<b>91008</b>	lower tray for code 91006 - transparent - to transport antitumoral drugs in 150-250-500 mL bottles	5/box
<b>91009</b>	external container for "Safe TA " medium size - to transfer the antitumoral drugs outside the hospital or to transport light sensitive drugs	1/box
<b>91298</b>	external container for "Safe TA " large size - to transfer the antitumoral drugs outside the hospital or to transport light sensitive drugs	1/box



# ISO-TRANSPORT

CERTIFIED REFRIGERATED TRANSFER CASE FOR SPECIMEN TRANSPORTATION AT 2/8 °C

**High isothermal efficiency:**

the bag is constructed using a special insulated material designed to provide extended insulative qualities

**Certified isothermal efficiency:**

the bag has been tested and certified as suitable to maintain an internal temperature of 2/8 °C for up to 10 hours when used in an external temperature of up to 35 °C

**Capacity:**

the internal volume is 32 liters, allowing a large number of samples to be transported

**Dimensions:**

external 600x330x330 h mm;  
internal 520x250x250 h mm

**Lightweight:**

the case weights only 2,6 kg

**No electricity required:**

Isothermal efficiency is provided by four high efficiency cool packs, sold as accessories. The case can be used for the transportation of:

- Biological specimens
- Urine test tubes for the drug addiction tests to preserve the samples at 4 °C
- Food specimens
- Water specimens
- Any other samples/specimens/material which need refrigerated transportation

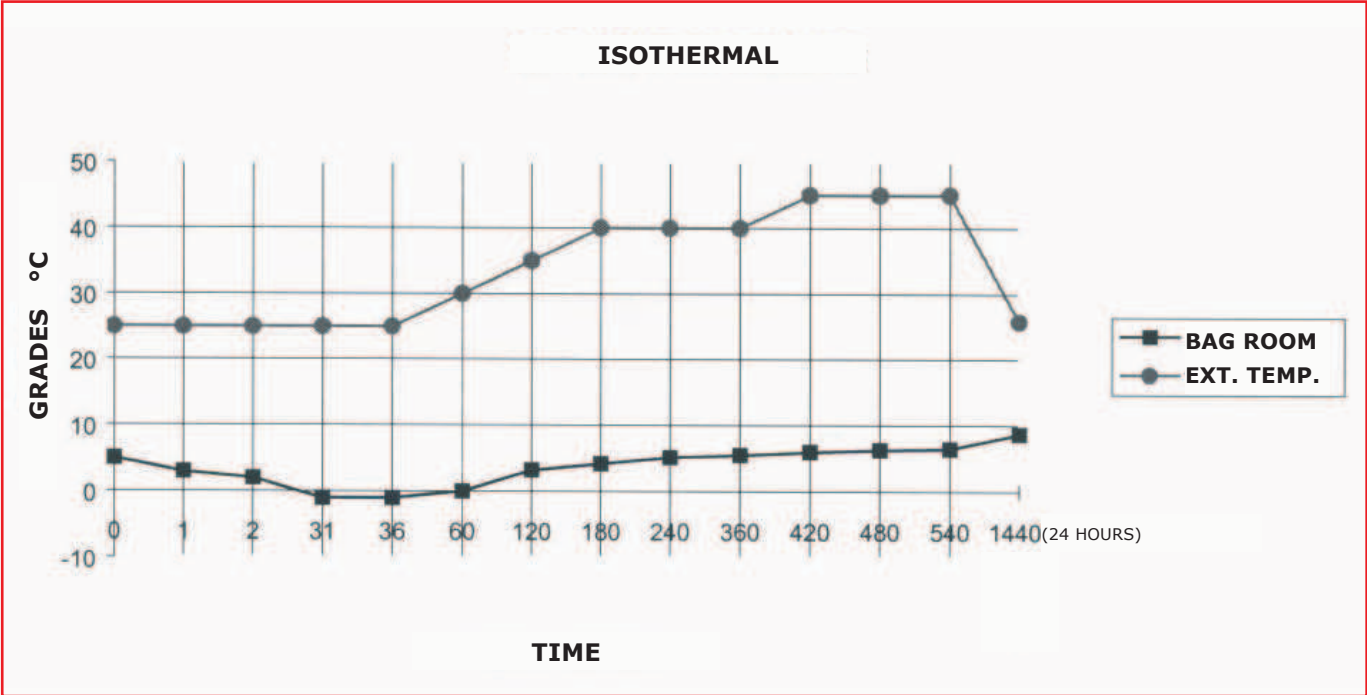


# ISO-TRANSPORT

CERTIFIED REFRIGERATED TRANSFER CASE FOR SPECIMEN TRANSPORTATION AT 2/8 °C



## GRAPH OF THE TEMPERATURE RECORDING



## HOW TO USE



Biological samples can be first placed inside "Bio Carrier" case (code 23144) or in a "Bio Protection Full Ser" case (code 89569). Isothermal case should be considered the "external" case.



Food specimens may be contained in "Presto Chiuso" bags to enable the samples to quickly reach a refrigerated temperature.



To verify temperature during the transportation a data logger, such as the "Thermo Button", may be used.



### WHAT TO ORDER

<b>91766</b>	"Iso-Transport" isothermal certified case	1/pz
<b>91767</b>	"Super Cold" high efficiency cold pack	4/pz

### Accessories

<b>90965</b>	"Thermo Button" data logger complete with USB cable, software and support	1/pz
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# ANTIBLASTIC-AID-BAG

FIRST AID SET FOR ANTIBLASTIC AND CYTOSTATIC ANTITUMORAL DRUGS HANDLING

First aid system to neutralize antitumoral drugs in case of accidental spreading

Conforms to safety guidelines

It grants the safety of the operators who have to handle antitumoral drugs

It comes in practical red case

## The set includes:

- 1 pack of adsorbent material to neutralize the poured or spread drug
- 1 safety mask
- 1 pair of gloves
- 1 pair of protective glasses
- Dustpan and broom to catch the neutralized material
- 2 bags with the cytotoxic symbol
- 2 pairs of overshoes
- 1 disposable bouffant cap
- 1 disposable overall
- 1 sodium hypochlorite bottle
- 1 adsorbent wipe to use with sodium hypochlorite
- 1 boric water to clean eyes
- 3 bags to stock the sodium hypochlorite bottle after use



## WHAT TO ORDER

**91010** "Antiblastic-Aid-Bag" first aid set for antiblastic and cytostatic antitumoral drugs handling

1/box