



PROTOCOL FOR TRANSPORT OF CELLS

Cells can be shipped at room temperature if the destination is reachable in 24 hours or in dry ice for greater distances.

A- TRANSPORT OF CELLS AT ROOM TEMPERATURE

For transport of cells at room temperature, cells must be grown in a flask. (See: <u>PRIMARY MYOBLAST</u> CULTURE FROM FRESH HUMAN MUSCLE BIOPSY protocol)

Equipment and Materials

The following packaging material¹ is necessary:

- <u>Primary packaging</u>: The tightly closed flask containing the cells and the medium.
- <u>Absorbent paper</u> (kitchen paper)
- Bubble wrap
- <u>Secondary packaging</u>: Hard plastic container hermetically sealed (leak-proof plastic freezer containers or tubes with screw cap)
- <u>Outer packaging</u>: An approved insulated polystyrene box plus external cardboard package-box for the transport of biological material

Procedure

Fill up the flask with cell proliferating medium and close the flask tightly.

Preparation of the packaging:

- 1. Wrap the neck and cap of the flask with parafilm.
- 2. Wrap the flask in **absorbent paper** (kitchen paper), then in **bubble wrap**, and place it in a **plastic container**.
- 3. Tighten cap of plastic container
- 4. Then put the plastic container in the package-box.
- 5. Enclose the the following documents:
- the **Transport Document**
- the Safety Instructions Document
- 6. Label the package-box clearly on two separate labels, so that it is easy to read and to identify the **sender**'s and **recipient**'s addresses, and give all the information necessary for the delivery and the **type of storage**.
- 7. The label must indicate: "DIAGNOSIS SAMPLE(S) UN 3373"

See also the <u>PROTOCOL FOR CONDITIONING AND TRANSPORT OF BIOMATERIALS</u> for "Regulatory obligations related to the UN numbers".

Transport of Samples

- 1. Samples shall be picked up at the sender's institution
- 2. The carrier must be accredited for the transport of dangerous goods
- 3. For transport to foreign countries, both the sender and the recipient must have an import-export authorisation for biological material.²

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¹ The packaging material is approved by the **Regulation on Transport of Biological Material (ADR) in force** as of January 1st 2005.

² Authorisations are delivered by the national or local authority





B-TRANSPORT OF CELLS IN DRY ICE

For transport of cells in dry ice, cells must be frozen (see <u>FREEZING, CRYOPRESERVATION, STORAGE AND REACTIVATION OF CELL LINES</u> protocol).

Equipment and Materials

The following packaging material³ is necessary:

- Primary packaging: The tightly closed flask containing the cells and the medium.
- Absorbent paper (kitchen paper)
- <u>Secondary packaging</u>: Hard plastic container hermetically sealed (leak-proof plastic freezer containers or tubes with screw cap)
- Outer packaging: An approved insulated polystirene plus external cardboard package-box for the transport of biological material
- <u>Dry ice</u> (15 kg are sufficient for about 72 hours if the package is kept refrigerated at intervals between shipping)

Procedure

Make sure that the secondary container and absorbent paper are pre-cooled in a freezer and that the dry ice is ready in the polystyrene box.

Preparation of the packaging:

- 1. Wrap the cryotubes in pre-cooled absorbent paper (kitchen paper), and place them in a pre-cooled, leak-proof **plastic container**.
- 2. **Tighten the cap of** the plastic container
- 3. Then put the plastic container in the **package-box**. Make sure that the dry ice is already in place in order not to thaw the cells.
- 4. Enclose the following documents:
 - a. the **Transport Document**
 - b. the Safety Instructions Document
- 5. Label the package-box clearly so that it is easy to read and to identify the **sender**'s and **recipient**'s addresses, on two separate labels, and give all the information necessary for the delivery and the **type of storage (at -20** °C).
- 6. The label must indicate: "DIAGNOSIS SAMPLE(S) UN 3373"
- 7. Place on the package box the label UN 1845 indicating that the package contains dry ice. See also the PROTOCOL FOR CONDITIONING AND TRANSPORT OF BIOMATERIALS for

See also the <u>PROTOCOL FOR CONDITIONING AND TRANSPORT OF BIOMATERIALS</u> for "Regulatory obligations related to the UN numbers".

Transport of Samples

1. Samples shall be picked up at the sender's institution

- 2. The carrier must be accredited for the transport of dangerous goods
- 3. For transport to foreign countries, both the sender and the recipient must have an import-export authorisation for biological material².

³ The packaging material is approved by the **Regulation on Transport of Biological Material (ADR) in force** as of January 1st 2005.