



# TRANSPORT AND ANALYSIS SYSTEM FOR HAZARDOUS SAMPLES

*Innovative technology for the containment and analysis of potentially hazardous samples, with no risk of contamination*

## Technological advantages

### A reliable and effective system

- Direct and safe sample analysis
- Robust product
- Periodic leak-tightness checks
- Optimised for non-destructive analysis

### A miniature P4 laboratory

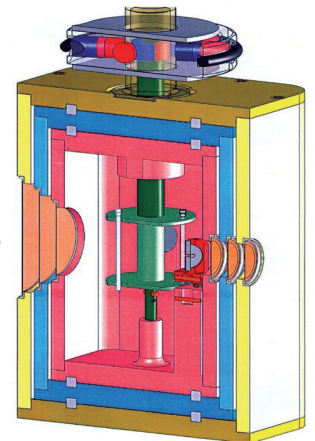
- Miniaturised system
- Easy to transport
- Can be reused and sterilised

### Technical characteristics

- Diameter of capillary tubes: between 0.1 and 5 mm
- Overall weight: 2.3kg
- Chamber dimensions (Length x Depth x Height)
  - Chamber 1: 41x32x62 mm
  - Chamber 2: 51x42x80.4 mm
  - Chamber 3: 69x60x116.8 mm
- Differential pressure levels:
  - Chamber 1: 500 mbar
  - Chamber 2: 750 mbar
  - Chamber 3: 900 mbar



3D image of sample carrier



Sectional view of system, composed of three leak-tight chambers

## Overview of invention

Device for the transport and analysis of potentially hazardous samples

Structure comprises three capillary tubes contained in three nested, sealed chambers that enable external hyperspectral analysis (X-ray, Raman, and infrared)

## Potential applications

Space missions in which samples are returned for analysis

Pharmaceutical laboratories (biological, chemical analyses, etc.)

Measuring of toxic/radioactive samples

## Commercial benefits

### Unique product

- Innovative technology
- Tested and validated prototype
- Miniaturised, compact system for easy transport
- Time saved thanks to wide range of possible analyses
- Lower installation costs

**TRL : 5 (2010)**

*Patented invention, available under license*