



## AMNIOMED® SMART Medium

Since the first successful in vitro culture of Amniotic fluid cells in the 1970s, amniocentesis and *chorionic villi* sampling (CVS) represent the most diffuse invasive procedures used for prenatal diagnosis, to detect possible foetal chromosomal abnormalities, metabolic enzyme defects, and to conduct DNA analysis.

### Product description

**AmnioMed® Smart** is a highly specialized medium for in vitro diagnostic procedures for the cultivation and growth of human Amniotic fluid cells and *chorionic villi* biopsy samples used in cytogenetic applications with karyotyping and Fluorescent in situ Hybridization (FISH) purposes.

**AmnioMed® Smart** is also recommended for incubation (a short incubation, 24-48 hours) of *chorionic villi* samples, for the so called "direct method" using cytotrophoblast spontaneous metaphases for karyotyping purposes.

Complete, ready-to-use medium, with an innovative formulation that provides a more efficient and fast cell attachment and growth, resulting in earlier chromosome analysis and reduces handling steps and the possibility of contamination.

### Storage and shelf life

**Frozen:** store at -5°C to -30°C until the stated expiry date shown on the label.

**Refrigerated:** store at +4°C for maximum 14 days.

**Shelf life:** 24 months from production date.

Protect from light.

Do not use if a visible precipitate is observed in the medium.

### Quality control

**AmnioMed® Smart** is tested for sterility and analysed for pH and endotoxin concentrations. In addition to these standard specifications, each batch manufactured is tested for cell growth by a Cytogenetics reference laboratory.

This method requires, for a successful prenatal diagnosis, the rapid *ex vivo* cultivation and karyotyping of these amniotic fluid-derived cells and/or *chorionic villi* samples. These cells have traditionally been propagated in either conventional cell culture medium supplemented with bovine serum or in specialized culture medium.

### Features

- ✗ Designed for primary cultures of human amniotic fluid cells and chorionic villus samples; it is also recommended for the "direct method" on chorionic villi samples;
- ✗ Promotes fast attachment of cells; under ideal condition, guarantees the cell growth in 7-9 days;
- ✗ Available in liquid form, frozen; it is ready-to-use;
- ✗ Contains FBS, L-glutamine, growth factors, Gentamycin, Sodium Bicarbonate as buffering system and Phenol red as pH indicator;
- ✗ Developed for either open (in a 5% CO<sub>2</sub> atmosphere) and closed culture systems;
- ✗ CE marked for IVD (98/79/EC).



chorionic villi



amniocytes

### Ordering Information

Ref.	Description	Format
EKAMM100	Amniomed® Smart	100 ml
EKAMM100-12	Amniomed® Smart	12 x 100ml

EuroClone S.p.A. reserves the right to change product specifications without prior notice

Distributed by:

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EuroClone S.p.A. has a Quality System certified in compliance with  
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