

## hMSC proliferation medium, FCS-kit

Cat.-Nr.: 211 0901

contains of:

Basal media		Supplements	
200 0901	500 ml hMSC proliferation medium, basal	231 5000	FCS (foetal calf serum)
		221 1000	HEPES
		222 1001	L-Alanyl-L-Glutamine
		245 0100	human rec. bFGF (basic fibroblast growth factor)
		236 0350	Antibiotics (optional)

### Maintenance of hMSC proliferation medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

### Characteristics:

The Provitro hMSC proliferation growth medium is a sterile liquid culture medium for culturing human mesenchymal stem cells (hMSC). The medium is delivered as a basal medium and is suitable for culturing hMSC after adding the supplement kit components. The formulation is optimized for initial seeding of 6,000 cells / cm<sup>2</sup> up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

### Stability and storage:

The supplemented hMSC proliferation growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

### Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

### Quality control:

Provitro's hMSC proliferation medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for hMSC proliferating characteristics. The cells cultured in hMSC proliferation medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

### Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

## In vitro laboratory use only.

**Not intended for any human or animal diagnostic or therapeutic use.**