

## hMSC osteogenesis induction medium, FCS

Cat.-Nr.: 201 0903

contains of:

Basal media		Supplements	
200 0903	500 ml hMSC osteogenesis induction medium, basal	218 0903	hMSC osteogenesis induction Supplement-Mix, FCS
		236 0350	Antibiotics (optional)

### Maintenance of hMSC osteogenesis induction medium:

Place the bottle of **medium** in the dark at **4°C to 8°C** immediately after delivery.

### Characteristics:

The Provitro hMSC osteogenesis induction medium is a sterile liquid culture medium for inducing osteogenic differentiation of human mesenchymal stem cells (hMSC). The medium is delivered as a basal medium and is suitable for culturing hMSC after adding the supplement mix 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 osteogenesis induction 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 osteogenesis induction medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for hMSC osteogenesis induction characteristics. The cells cultured in hMSC osteogenesis induction 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.**