

## hMSC chondrogenesis induction medium, serum-free

Cat.-Nr.: 203 0902

contains of:

Basal media		Supplements	
200 0902	500 ml hMSC chondrogenesis induction medium, basal	221 1000	HEPES (+4°C)
		238 0902	ITS (+4°C)
		218 0902	hMSC chondrogenesis induction Supplement-Mix 1 (-20°C)
		247 0902	TGF-β-1 (-20°C)
		236 0350	Antibiotics (optional) (-20°C)

### Maintenance of hMSC chondrogenesis induction medium:

Place the bottle of **medium** in the dark at 4°C to 8°C immediately after delivery. Store the separate delivered **Supplements** at -20°C / +4°C. Take care on the instructions on the Supplement vials !!!

### Characteristics:

The Provitro hMSC chondrogenesis induction medium is a sterile liquid culture medium for inducing chondrogenic differentiation of human mesenchymal stem cells (hMSC). The medium is delivered as a basal medium and is suitable for culturing hMSC after adding all 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 chondrogenesis induction medium can be stored in the dark at 4°C to 8°C for up to 2 weeks. 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 chondrogenesis induction medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for hMSC chondrogenesis induction characteristics. The cells cultured in hMSC chondrogenesis 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.