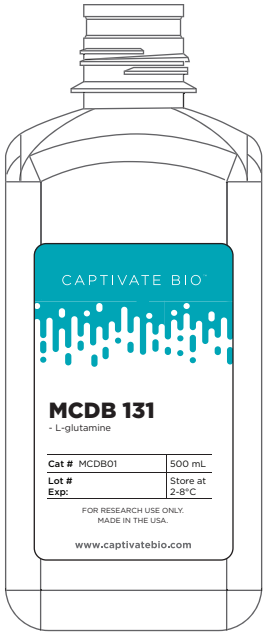
CAPTIVATE BIO™

# MCDB 131

without L-glutamine




- High Quality Medium
- Manufactured in the USA
- Standard Formulation
- Customization Available

## High quality stem cell basal media

MCDB 131 Medium was originally developed by Knedler and Ham as reduced serum-supplemented medium for the culture of human microvascular endothelial cells (HMVEC). Recent studies have shown MCDB 131 to be effective in definitive endoderm differentiation of human pluripotent stem cells (hPSCs), allowing for the derivation of cell lines that produce epithelial lining of systems such as the intestines, lungs, liver, and pancreas. In addition, MCDB 131 has proven to be a critical component in the differentiation of hPSCs into functional pancreatic beta cells through several culture stages producing definitive endoderm, primitive gut tube, pancreatic progenitors, endocrine progenitors, and finally, insulin-producing cells.

Captivate Bio's MCDB 131 Medium contains no proteins or growth factors, and is often supplemented with L-glutamine and FBS. MCDB 131 is manufactured under cGMP and in facilities that are certified ISO 13485.

**This MCDB 131 is modified as follows:**

| With | Without |
|---|---|
| • Phenol Red | • L-glutamine |
| • Sodium Pyruvate | • HEPES |

| Product Information | CAT NO | QTY |
|---|---|---|
| MCDB 131 Medium | MCDB01 | 500 mL |
| | MCDB02 | 1000 mL |

* Custom formulations and bulk packaging available.

| Quality Specifications | | | |
|---|---|---|---|
| **Intended use** | Mammalian cell culture, differentiation of hPSCs, HMVECs, smooth muscle, and cardiac myocytes | | |
| **Glutamine** | no L-glutamine | **HEPES Buffer** | no HEPES |
| **Phenol Red Indicator** | Phenol Red | **Shelf-Life** | 12 months from date of manufacture |
| **pH** | 7.2 - 7.6 | **Storage** | 2-8° C protect from light |
| **Osmolality** | 266 - 294 mOsm/kg | **Sterility** | Pass |
| **Endotoxin** | < 0.5 EU/mL | **Mycoplasma** | Not Detected |

**For more information, visit captivatebio.com, email orders@captivatebio.com, or contact us at (617) 607-4017.**