

MCDB 131 Medium

| Composition | | |
|-------------------------|---|----------|
| | Components | mg/L |
| Inorganic Salts | Ammonium Metavandate | 0.0006 |
| | Calcium Chloride x 2H ₂ O | 235.05 |
| | Copper(II) Sulfate x 5H ₂ O | 0.0012 |
| | Iron (III) sulfate x 7H ₂ O | 0.283 |
| | Magnesiumsulfate dried | 1565.20 |
| | Manganese Sulfate x H ₂ O | 0.0002 |
| | Ammonium Molybdate x 4H ₂ O | 0.0037 |
| | Nickel Chloride x 6H ₂ O | 0.0007 |
| | Potassium Chloride | 298.00 |
| | Sodium Chloride | 6,430.00 |
| | Sodium Metasilicate x 5H ₂ O | 2.09 |
| | Di-Sodium hydrogen phosphate | 71.00 |
| | Sodium Selenite anhydrous | 0.0039 |
| | Zinc Sulfate x 7H ₂ O | 0.0003 |
| Other Components | Adenine | 0.135 |
| | D-Glucose | 1,000.00 |
| | DL- α -Lipoic acid | 0.0021 |
| | Phenol Red | 10.00 |
| | Putrescine x 2HCl | 0.002 |
| | Sodium pyruvate | 110.00 |
| | 2'-Deoxythymidine | 0.024 |
| Amino acids | L-Alanine | 2.70 |
| | L-Arginine x HCl | 63.20 |
| | L-Asparagine x H ₂ O | 15.00 |
| | L-Aspartic Acid | 13.30 |
| | L-Cysteine x HCl x H ₂ O | 35.00 |
| | L-Glutamic Acid | 4.00 |
| | L-Glutamine | 1,461.00 |
| | Glycine | 2.30 |
| | L-Histidine x HCl x H ₂ O | 42.00 |
| | L-Isoleucine | 66.00 |
| | L-Leucine | 131.00 |
| | L-Lysine x HCl | 182.00 |
| | L-Methionine | 15.00 |
| | L-Phenylalanine | 33.00 |
| | L-Proline | 11.50 |
| | L-Serine | 32.00 |
| L-Threonine | 12.00 | |
| L-Tryptophan | 4.10 | |
| L-Tyrosine | 18.10 | |
| L-Valine | 117.10 | |
| Vitamins | D-Biotin | 0.0073 |
| | Choline Chloride | 13.96 |
| | Folic Acid | 0.60 |
| | myo-Inositol | 7.20 |
| | Niacinamide | 6.10 |
| | D-Calcium-pantothenate | 12.00 |
| | Pyridoxine x HCl | 2.10 |
| | Riboflavin | 0.0038 |
| | Thiamine x HCl | 3.40 |
| | Vitamin B12 | 0.0136 |

Description

MCDB 131 is a medium for the cultivation of human micro-vascular endothelial cells under reduced serum content. For this purpose it has be supplemented with dialyzed serum, EGF and hydrocortisone.

Liquid Media

MCDB 131⁽¹⁾
without L-Glutamine
with 1.176 g/L NaHCO₃ 500 ml P04-80057

MCDB 131⁽²⁾
with L-Glutamine
with 1.176 g/L NaHCO₃ 500 ml P04-80053

MCDB 131⁽²⁾
without Glutamine
with 25 mM Hepes
with 1.176 g/L NaHCO₃ 500 ml P04-80054

(1) usually on stock, (2) minimum order 10 l, (3) available on request