

## **Dulbecco's Modified Eagle's Medium (DMEM)** *Cell Culture Medium*

**产品编号:** CM10015

**产品简介:** Dulbecco's Modified Eagle's Medium (DMEM) 是在 Basal Medium Eagle (BME) 基础上改进而来。其中氨基酸浓度为 BME 的 4 倍, 根据葡萄糖 (glucose) 的浓度高低分为“高糖 (4500mg/L)”和“低糖 (1000mg/L) 两类, 相对 BME, DMEM 含有多多种添加成分。DMEM 首见于小鼠胚胎细胞培养, 其后各种改进型广泛用于原代细胞, 非转化和转化细胞的培养。各种 DMEM 的区别主要在于 L-谷氨酰胺 (L-glutamine), 丙酮酸钠 (sodium pyruvate) 的不同组合以及是否含有酚红 (phenol red) 等。  
本产品含有 1000 mg/L glucose, 不含 sodium pyruvate、L-glutamine 和酚红 (phenol red)。

**产品类型:** 无菌过滤即用型液体培养基

**包装规格:** 500 mL

**储存条件:** 4-8°C

**渗透压:** 335±30 mOsm

**酸碱度:** 7.2±0.2

**参考文献:**

1. Dulbecco, R. and Freeman, G. (1959). Plaque Production by the Polyoma Virus. *Virology*. 8, 396-397.
2. Smith, J.D., Freeman, G., Vogt, M. and Dulbecco, R. (1960). The Nucleic Acid of Polyoma Virus. 12, 185-196.
3. Morton, H.J., (1970). A Survey of Commercially Available Tissue Culture Media. *In Vitro*. 6, 89.
4. Rutzky, L.P. and Pumper, R.W., (1974). Supplement to a Survey of Commercially Available Tissue Culture Media (1970). *In Vitro*. 9, 468.

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M&C Gene Technology • Phone: (010)8205-7786 • (010)8693-7385 • Fax: (010)8205-9875

E-mail: order@macgene.com • Tech Support: support@macgene.com • URL: <http://www.macgene.com>

## Dulbecco's Modified Eagle's Medium (DMEM)

| Catalog No.                                          | CM10013 | CM10014 | CM10015 | CM15013 | CM15017 | CM15018 | CM15019 | CM15020 | CM17204 | CM17205 | CM17206 |
|------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Inorganic Salts                                      | mg/L    | mg/L    | mg/L    | mg/L    | mg/L    | mg/L    | mg/L    | mg/L    | mg/L    | mg/L    | mg/L    |
| CaCl <sub>2</sub> (anhydrous)                        | 200     | 200     | 200     | 200     | 200     | 200     | 200     | 200     | 200     | 200     | 200     |
| Fe(NO <sub>3</sub> ) <sub>3</sub> •9H <sub>2</sub> O | 0.1     | 0.1     | 0.1     | 0.1     | 0.1     | 0.1     | 0.1     | 0.1     | 0.1     | 0.1     | 0.1     |
| KCl                                                  | 400     | 400     | 400     | 400     | 400     | 400     | 400     | 400     | 400     | 400     | 400     |
| MgSO <sub>4</sub> (anhydrous)                        | 97.7    | 97.7    | 97.7    | 97.7    | 97.7    | 97.7    | 97.7    | 97.7    | 97.7    | 97.7    | 97.7    |
| NaCl                                                 | 6400    | 6400    | 6400    | 6400    | 6400    | 6400    | 6400    | 6400    | 6400    | 6400    | 6400    |
| NaH <sub>2</sub> PO <sub>4</sub> •H <sub>2</sub> O   | 125     | 125     | 125     | 125     | 125     | 125     | 125     | 125     | 125     | 125     | 125     |
| NaHCO <sub>3</sub>                                   | 3700    | 3700    | 3700    | 3700    | 3700    | 3700    | 3700    | 3700    | 3700    | 3700    | 3700    |
| <b>Amino Acids</b>                                   |         |         |         |         |         |         |         |         |         |         |         |
| L-Arginine•HCl                                       | 84      | 84      | 84      | 84      | 84      | 84      | 84      | 84      | 84      | 84      | 84      |
| L-Cystine•2HCl                                       | 62.57   | 62.57   | 62.57   | 62.57   | 62.57   | 62.57   | 62.57   | 62.57   |         | 62.57   | 62.57   |
| L-Glutamine                                          | 584     | 584     |         |         |         |         | 584     | 584     |         |         |         |
| Glycine                                              | 30      | 30      | 30      | 30      | 30      | 30      | 30      | 30      | 30      | 30      | 30      |
| L-Histidine•HCl•H <sub>2</sub> O                     | 42      | 42      | 42      | 42      | 42      | 42      | 42      | 42      | 42      | 42      | 42      |
| L-Isoleucine                                         | 104.8   | 104.8   | 104.8   | 104.8   | 104.8   | 104.8   | 104.8   | 104.8   | 104.8   | 104.8   | 104.8   |
| L-Leucine                                            | 104.8   | 104.8   | 104.8   | 104.8   | 104.8   | 104.8   | 104.8   | 104.8   | 104.8   | 104.8   | 104.8   |
| L-Lysine•HCl                                         | 146.2   | 146.2   | 146.2   | 146.2   | 146.2   | 146.2   | 146.2   | 146.2   | 146.2   | 146.2   | 146.2   |
| L-Methionine                                         | 30      | 30      | 30      | 30      | 30      | 30      | 30      | 30      |         | 30      | 30      |
| L-Phenylalanine                                      | 66      | 66      | 66      | 66      | 66      | 66      | 66      | 66      | 66      | 66      | 66      |
| L-Serine                                             | 42      | 42      | 42      | 42      | 42      | 42      | 42      | 42      | 42      | 42      | 42      |
| L-Threonine                                          | 95.2    | 95.2    | 95.2    | 95.2    | 95.2    | 95.2    | 95.2    | 95.2    | 95.2    | 95.2    | 95.2    |
| L-Tryptophan                                         | 16      | 16      | 16      | 16      | 16      | 16      | 16      | 16      | 16      | 16      | 16      |
| L-Tyrosine•2Na•2H <sub>2</sub> O                     | 103.79  | 103.79  | 103.79  | 103.79  | 103.79  | 103.79  | 103.79  | 103.79  | 103.79  | 103.79  | 103.79  |
| L-Valine                                             | 94      | 94      | 94      | 94      | 94      | 94      | 94      | 94      | 94      | 94      | 94      |
| <b>Vitamins</b>                                      |         |         |         |         |         |         |         |         |         |         |         |
| D-Calcium pantothenate                               | 4       | 4       | 4       | 4       | 4       | 4       | 4       | 4       | 4       | 4       | 4       |
| Choline chloride                                     | 4       | 4       | 4       | 4       | 4       | 4       | 4       | 4       | 4       | 4       | 4       |
| Folic acid                                           | 4       | 4       | 4       | 4       | 4       | 4       | 4       | 4       | 4       | 4       | 4       |
| i-Inositol                                           | 7.2     | 7.2     | 7.2     | 7.2     | 7.2     | 7.2     | 7.2     | 7.2     | 7.2     | 7.2     | 7.2     |
| Nicotinamide                                         | 4       | 4       | 4       | 4       | 4       | 4       | 4       | 4       | 4       | 4       | 4       |
| Pyridoxine•HCl                                       | 4       | 4       | 4       | 4       | 4       | 4       | 4       | 4       | 4       | 4       | 4       |
| Riboflavin                                           | 0.4     | 0.4     | 0.4     | 0.4     | 0.4     | 0.4     | 0.4     | 0.4     | 0.4     | 0.4     | 0.4     |
| Thiamine•HCl                                         | 4       | 4       | 4       | 4       | 4       | 4       | 4       | 4       | 4       | 4       | 4       |
| <b>Other</b>                                         |         |         |         |         |         |         |         |         |         |         |         |
| D-Glucose                                            | 4500    | 1000    | 1000    | 4500    | 4500    | 4500    | 4500    | 4500    | 4500    | 4500    | 4500    |
| Phenol red, Na                                       | 15      | 15      |         | 15      | 15      | 15      | 15      |         | 15      |         | 15      |
| Sodium pyruvate                                      | 110     | 110     |         | 110     |         | 110     | 110     | 110     | 110     | 110     | 110     |
| HEPES                                                |         |         |         |         |         | 5958    | 5958    | 5958    |         |         |         |

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