

Dulbecco's Modified Eagle's Media (DME)

| | <u>D0422</u> | <u>D1145</u> | <u>D1152</u> | <u>D2429</u> | <u>D2554</u> | <u>D2902</u> | <u>D3656</u> | <u>D5030</u> |
|-------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | [Liquid] | [Liquid] | [Powder] | [Liquid] | [Liquid] | [Powder] | [Powder] | [Powder] |
| Component | g/L | g/L | g/L | g/L | g/L | g/L | g/L | g/L |
| Inorganic salts | | | | | | | | |
| CaCl ₂ • 2H ₂ O | 0.265 | 0.265 | 0.265 | 2.65 | 2.65 | 0.265 | 0.265 | 0.265 |
| Fe(NO ₃) ₃ • 9H ₂ O | 0.0001 | 0.0001 | 0.0001 | 0.001 | 0.001 | 0.0001 | 0.0001 | 0.0001 |
| MgSO ₄ (anhyd) | 0.09767 | 0.09767 | 0.09767 | 0.9767 | 0.9767 | 0.09767 | 0.09767 | 0.09767 |
| KCl | 0.4 | 0.4 | 0.4 | 4 | 4 | 0.4 | 0.4 | 0.4 |
| NaHCO ₃ | 3.7 | 3.7 | — | — | — | — | — | — |
| NaCl | 6.4 | 6.4 | 4.4 | 64 | 64 | 6.4 | 6.4 | 6.4 |
| Na ₂ HPO ₄ (anhyd) | 0.109 | 0.109 | 0.109 | 1.09 | 1.09 | 0.109 | — | 0.109 |
| Amino acids | | | | | | | | |
| L-Arginine • HCl | 0.84 | 0.084 | 0.084 | 0.84 | 0.84 | 0.084 | 0.084 | 0.084 |
| L-Cystine • 2HCl | — | 0.0626 | 0.0626 | 0.626 | 0.626 | 0.0626 | 0.0626 | 0.0626 |
| L-Glutamine | — | — | 0.584 | — | — | 0.584 | 0.584 | — |
| Glycine | 0.03 | 0.03 | 0.03 | 0.3 | 0.3 | 0.03 | 0.03 | 0.03 |
| L-Histidine • HCl • monohydrate | 0.042 | 0.042 | 0.042 | 0.42 | 0.42 | 0.042 | 0.042 | 0.042 |
| L-Isoleucine | 0.105 | 0.105 | 0.105 | 1.05 | 1.05 | 0.105 | 0.105 | 0.105 |
| L-Leucine | 0.105 | 0.105 | 0.105 | 1.05 | 1.05 | 0.105 | 0.105 | 0.105 |
| L-Lysine • HCl | 1.46 | 0.146 | 0.146 | 1.46 | 1.46 | 0.146 | 0.146 | 0.146 |
| L-Methionine | — | 0.03 | 0.03 | 0.3 | 0.3 | 0.03 | 0.03 | 0.03 |
| L-Phenylalanine | 0.066 | 0.066 | 0.066 | 0.66 | 0.66 | 0.066 | 0.066 | 0.066 |
| L-Serine | 0.042 | 0.042 | 0.042 | 0.42 | 0.42 | 0.042 | 0.042 | 0.042 |
| L-Threonine | 0.095 | 0.095 | 0.095 | 0.95 | 0.95 | 0.095 | 0.095 | 0.095 |
| L-Tryptophan | 0.016 | 0.016 | 0.016 | 0.16 | 0.16 | 0.016 | 0.016 | 0.016 |
| L-Tyrosine | — | 0.08351 | — | — | — | — | — | — |
| L-Tyrosine • 2Na • dihydrate | 0.10379 | — | 0.10379 | 1.0379 | 1.0379 | 0.10379 | 0.10379 | 0.10379 |
| L-Valine | 0.094 | 0.094 | 0.094 | 0.094 | 0.094 | 0.094 | 0.094 | 0.094 |
| Vitamins | | | | | | | | |
| Choline chloride | 0.004 | 0.004 | 0.004 | 0.04 | 0.04 | 0.004 | 0.004 | 0.004 |
| Folic acid | 0.004 | 0.004 | 0.004 | — | — | 0.004 | 0.004 | 0.004 |
| myo-Inositol | 0.0072 | 0.0072 | 0.0072 | 0.072 | 0.072 | 0.0072 | 0.0072 | 0.0072 |
| Niacinamide | 0.004 | 0.004 | 0.004 | 0.04 | 0.04 | 0.004 | 0.004 | 0.004 |
| D-Pantothenic acid • ½Ca | 0.004 | 0.004 | 0.004 | 0.04 | 0.04 | 0.004 | 0.004 | 0.004 |
| Pyridoxine • HCl | — | 0.004039 | — | 0.04 | 0.04 | — | — | — |
| Pyridoxal • HCl | 0.004 | — | 0.004 | — | — | 0.004 | 0.004 | 0.004 |
| Riboflavin | 0.0004 | 0.0004 | 0.0004 | 0.004 | 0.004 | 0.0004 | 0.0004 | 0.0004 |
| Thiamine • HCl | 0.004 | 0.004 | 0.004 | 0.04 | 0.04 | 0.004 | 0.004 | 0.004 |
| Sugars | | | | | | | | |
| D-Glucose | 4.5 | 4.5 | 4.5 | 10 | 45 | 1 | 4.5 | — |
| Other | | | | | | | | |
| HEPES | — | — | 5.958 | — | — | — | — | — |
| Phenol red • Na | 0.0159 | — | 0.0159 | 0.159 | 0.159 | — | 0.0159 | — |
| Pyruvic acid • Na | 0.11 | — | — | 1.1 | 1.1 | 0.11 | — | — |
| Add | | | | | | | | |
| Glucose | — | — | — | — | — | — | — | 1 |
| L-Glutamine | 0.584 | 0.584 | — | 0.584 at 1x | 0.584 at 1x | — | — | 0.584 |
| NaHCO ₃ | — | — | 3.7 | 3.7 at 1x | 3.7 at 1x | 3.7 | 3.7 | 3.7 |
| Na ₂ HPO ₄ (anhyd) | — | — | — | — | — | — | 0.109 | — |

Dulbecco's Modified Eagle's Media (DME)

| | D5523 | D5546 | D5671 | D5796 | D5921 | D6046 | D6171 | D6429 |
|-------------------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | [Powder] | [Liquid] | [Liquid] | [Liquid] | [Liquid] | [Liquid] | [Liquid] | [Liquid] |
| Component | g/L | g/L | g/L | g/L | g/L | g/L | g/L | g/L |
| Inorganic salts | | | | | | | | |
| CaCl ₂ (anhyd) | 0.2 | — | — | — | — | — | — | — |
| CaCl ₂ • 2H ₂ O | — | 0.265 | 0.265 | 0.265 | 0.265 | 0.265 | 0.265 | 0.265 |
| Fe(NO ₃) ₃ • 9H ₂ O | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| MgSO ₄ (anhyd) | 0.09767 | 0.09767 | 0.09767 | 0.09767 | 0.09767 | 0.09767 | 0.09767 | 0.09767 |
| KCl | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| NaHCO ₃ | — | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| NaCl | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 4.4 | 6.4 |
| Na ₂ HPO ₄ (anhyd) | 0.109 | 0.109 | 0.109 | 0.109 | 0.109 | 0.109 | 0.109 | 0.109 |
| Amino acids | | | | | | | | |
| L-Arginine • HCl | 0.084 | 0.084 | 0.084 | 0.084 | 0.084 | 0.084 | 0.084 | 0.084 |
| L-Cystine • 2HCl | 0.0626 | 0.0626 | 0.0626 | 0.0626 | 0.0626 | 0.0626 | 0.0626 | 0.0626 |
| L-Glutamine | 0.584 | — | — | 0.584 | — | 0.584 | — | 0.584 |
| Glycine | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| L-Histidine • HCl • monohydrate | 0.042 | 0.042 | 0.042 | 0.042 | 0.042 | 0.042 | 0.042 | 0.042 |
| L-Isoleucine | 0.105 | 0.105 | 0.105 | 0.105 | 0.105 | 0.105 | 0.105 | 0.105 |
| L-Leucine | 0.105 | 0.105 | 0.105 | 0.105 | 0.105 | 0.105 | 0.105 | 0.105 |
| L-Lysine • HCl | 0.146 | 0.146 | 0.146 | 0.146 | 0.146 | 0.146 | 0.146 | 0.146 |
| L-Methionine | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| L-Phenylalanine | 0.066 | 0.066 | 0.066 | 0.066 | 0.066 | 0.066 | 0.066 | 0.066 |
| L-Serine | 0.042 | 0.042 | 0.042 | 0.042 | 0.042 | 0.042 | 0.042 | 0.042 |
| L-Threonine | 0.095 | 0.095 | 0.095 | 0.095 | 0.095 | 0.095 | 0.095 | 0.095 |
| L-Tryptophan | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 |
| L-Tyrosine • 2Na • dihydrate | 0.10379 | 0.10379 | 0.10379 | 0.10379 | 0.10379 | 0.10379 | 0.10379 | 0.10379 |
| L-Valine | 0.094 | 0.094 | 0.094 | 0.094 | 0.094 | 0.094 | 0.094 | 0.094 |
| Vitamins | | | | | | | | |
| Choline chloride | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 |
| Folic acid | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 |
| myo-Inositol | 0.0072 | 0.0072 | 0.0072 | 0.0072 | 0.0072 | 0.0072 | 0.0072 | 0.0072 |
| Niacinamide | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 |
| D-Pantothenic acid • ½Ca | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 |
| Pyridoxine • HCl | — | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 |
| Pyridoxal • HCl | 0.004 | — | — | — | — | — | — | — |
| Riboflavin | 0.0004 | 0.0004 | 0.0004 | 0.0004 | 0.0004 | 0.0004 | 0.0004 | 0.0004 |
| Thiamine • HCl | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 |
| Sugars | | | | | | | | |
| D-Glucose | 1 | 1 | 4.5 | 4.5 | 1 | 1 | 4.5 | 4.5 |
| Other | | | | | | | | |
| HEPES | — | — | — | — | — | — | 5.958 | — |
| Phenol red • Na | 0.0159 | 0.0159 | 0.0159 | 0.0159 | — | 0.0159 | 0.0159 | 0.0159 |
| Pyruvic acid • Na | 0.11 | 0.11 | — | — | — | 0.11 | — | 0.11 |
| Add | | | | | | | | |
| NaHCO ₃ | 3.7 | — | — | — | — | — | — | — |
| L-Glutamine | — | 0.584 | 0.584 | — | 0.584 | — | 0.584 | — |

Dulbecco's Modified Eagle's Media (DME)

| Component | D5280 | D5648 | D6546 | D7777 |
|-------------------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | [Powder] g/L | [Powder] g/L | [Liquid] g/L | [Powder] g/L |
| Inorganic salts | | | | |
| CaCl ₂ • 2H ₂ O | 0.265 | 0.265 | 0.265 | 0.265 |
| Fe(NO ₃) ₃ • 9H ₂ O | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| MgSO ₄ (anhyd) | 0.09767 | 0.09767 | 0.09767 | 0.09767 |
| KCl | 0.4 | 0.4 | 0.4 | 0.4 |
| NaHCO ₃ | — | — | 3.7 | — |
| NaCl | 6.4 | 6.4 | 6.4 | 6.4 |
| Na ₂ HPO ₄ (anhyd) | 0.109 | 0.109 | 0.109 | 0.109 |
| Amino acids | | | | |
| L-Arginine • HCl | 0.084 | 0.084 | 0.084 | 0.084 |
| L-Cystine • 2HCl | 0.0626 | 0.0626 | 0.0626 | 0.0626 |
| L-Glutamine | — | 0.584 | — | 0.584 |
| Glycine | 0.03 | 0.03 | 0.03 | 0.03 |
| L-Histidine • HCl • monohydrate | 0.042 | 0.042 | 0.042 | 0.042 |
| L-Isoleucine | 0.105 | 0.105 | 0.105 | 0.105 |
| L-Leucine | 0.105 | 0.105 | 0.105 | 0.105 |
| L-Lysine • HCl | 0.146 | 0.146 | 0.146 | 0.146 |
| L-Methionine | 0.03 | 0.03 | 0.03 | 0.03 |
| L-Phenylalanine | 0.066 | 0.066 | 0.066 | 0.066 |
| L-Serine | 0.042 | 0.042 | 0.042 | 0.042 |
| L-Threonine | 0.095 | 0.095 | 0.095 | 0.095 |
| L-Tryptophan | 0.016 | 0.016 | 0.016 | 0.016 |
| L-Tyrosine | 0.072 | — | — | — |
| L-Tyrosine • 2Na • dihydrate | — | 0.10379 | 0.10379 | 0.10379 |
| L-Valine | 0.094 | 0.094 | 0.094 | 0.094 |
| Vitamins | | | | |
| Choline bitartrate | 0.0072 | — | — | — |
| Choline chloride | — | 0.004 | 0.004 | 0.004 |
| Folic acid | 0.004 | 0.004 | 0.004 | 0.004 |
| myo-Inositol | 0.0072 | 0.0072 | 0.0072 | 0.0072 |
| Niacinamide | 0.004 | 0.004 | 0.004 | 0.004 |
| D-Pantothenic acid • ½Ca | 0.004 | 0.004 | 0.004 | 0.004 |
| Pyridoxal • HCl | 0.004 | 0.004 | — | 0.004 |
| Pyridoxine • HCl | — | — | 0.004 | — |
| Riboflavin | 0.0004 | 0.0004 | 0.0004 | 0.0004 |
| Thiamine • HCl | 0.004 | 0.004 | 0.004 | 0.004 |
| Sugars | | | | |
| D-Glucose | 1 | 4.5 | 4.5 | 4.5 |
| Other | | | | |
| Phenol red • Na | 0.0093 | 0.0159 | 0.0159 | 0.0159 |
| Pyruvic acid • Na | 0.11 | — | 0.11 | 0.11 |
| Sodium succinate | 0.1 | — | — | — |
| Succinic acid | 0.075 | — | — | — |
| Add | | | | |
| L-Glutamine | 0.584 | — | 0.584 | — |
| NaHCO ₃ | 3.7 | 3.7 | — | 3.7 |