

# Basel Medium Eagle w/ Earle's BSS

12-105



| Description                               | CAS #      | Chemical Formula                                                                         | Concentration |           | Molarity  |           |
|-------------------------------------------|------------|------------------------------------------------------------------------------------------|---------------|-----------|-----------|-----------|
|                                           |            |                                                                                          | g/L           | mg/L      | mM        | uM        |
| Calcium Chloride Dihydrate                | 10035-04-8 | CaCl <sub>2</sub> • 2H <sub>2</sub> O                                                    | 0.265         | 265.000   | 1.802     | 1.802E+03 |
| Dextrose                                  | 50-99-7    | C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>                                            | 1.000         | 1.000E+03 | 5.551     | 5.551E+03 |
| Magnesium Sulfate Heptahydrate            | 10034-99-8 | MgSO <sub>4</sub> • 7H <sub>2</sub> O                                                    | 0.200         | 200.000   | 0.811     | 811.458   |
| Potassium Chloride                        | 7447-40-7  | KCl                                                                                      | 0.400         | 400.000   | 5.366     | 5.366E+03 |
| Sodium Bicarbonate                        | 144-55-8   | NaHCO <sub>3</sub>                                                                       | 2.200         | 2.200E+03 | 26.187    | 2.619E+04 |
| Sodium Chloride                           | 7647-14-5  | NaCl                                                                                     | 6.800         | 6.800E+03 | 116.359   | 1.164E+05 |
| Sodium phosphate monobasic monohydrate    | 10049-21-5 | NaH <sub>2</sub> PO <sub>4</sub> • H <sub>2</sub> O                                      | 0.140         | 140.000   | 1.015     | 1.015E+03 |
| L-Arginine Monohydrochloride              | 1119-34-2  | C <sub>6</sub> H <sub>14</sub> N <sub>4</sub> O <sub>2</sub> • HCl                       | 2.110E-02     | 21.100    | 0.100     | 100.161   |
| L-Cystine                                 | 56-89-3    | C <sub>6</sub> H <sub>12</sub> N <sub>2</sub> O <sub>4</sub> S <sub>2</sub>              | 1.200E-02     | 12.000    | 4.994E-02 | 49.938    |
| L-Histidine Monohydrochloride Monohydrate | 5934-29-2  | C <sub>6</sub> H <sub>9</sub> N <sub>3</sub> O <sub>2</sub> • HCl • H <sub>2</sub> O     | 1.050E-02     | 10.500    | 5.010E-02 | 50.095    |
| L-Isoleucine                              | 73-32-5    | HO <sub>2</sub> CCH(NH <sub>2</sub> )CH(CH <sub>3</sub> )CH <sub>2</sub> CH <sub>3</sub> | 2.620E-02     | 26.200    | 0.200     | 199.741   |
| L-Leucine                                 | 61-90-5    | HO <sub>2</sub> CCH(NH <sub>2</sub> )CH <sub>2</sub> CH(CH <sub>3</sub> ) <sub>2</sub>   | 2.620E-02     | 26.200    | 0.200     | 199.741   |
| L-Lysine Monohydrochloride                | 657-27-2   | C <sub>6</sub> H <sub>14</sub> N <sub>2</sub> O <sub>2</sub> • HCl                       | 3.650E-02     | 36.500    | 0.200     | 199.836   |
| L-Methionine                              | 63-68-3    | HO <sub>2</sub> CCH(NH <sub>2</sub> )CH <sub>2</sub> CH <sub>2</sub> SCH <sub>3</sub>    | 7.500E-03     | 7.500     | 5.027E-02 | 50.268    |
| L-Phenylalanine                           | 63-91-2    | HO <sub>2</sub> CCH(NH <sub>2</sub> )CH <sub>2</sub> C <sub>6</sub> H <sub>5</sub>       | 1.650E-02     | 16.500    | 9.988E-02 | 99.885    |
| L-Threonine                               | 72-19-5    | HO <sub>2</sub> CCH(NH <sub>2</sub> )CH(OH)CH <sub>3</sub>                               | 2.380E-02     | 23.800    | 0.200     | 199.799   |
| L-Tryptophan                              | 73-22-3    | C <sub>11</sub> H <sub>12</sub> N <sub>2</sub> O <sub>2</sub>                            | 4.000E-03     | 4.000     | 1.959E-02 | 19.586    |
| L-Tyrosine                                | 60-18-4    | C <sub>9</sub> H <sub>11</sub> NO <sub>3</sub>                                           | 1.810E-02     | 18.100    | 9.990E-02 | 99.895    |
| L-Valine                                  | 72-18-4    | HO <sub>2</sub> CCH(NH <sub>2</sub> )CH(CH <sub>3</sub> ) <sub>2</sub>                   | 2.340E-02     | 23.400    | 0.200     | 199.829   |
| D-Biotin (Vitamin H)                      | 58-85-5    | C <sub>10</sub> H <sub>16</sub> N <sub>2</sub> O <sub>3</sub> S                          | 2.443E-04     | 0.244     | 1.000E-03 | 1.000     |
| D-Calcium Pantothenate (Vitamin B5)       | 137-08-6   | C <sub>18</sub> H <sub>32</sub> CaN <sub>2</sub> O <sub>10</sub>                         | 2.383E-04     | 0.238     | 5.000E-04 | 0.500     |
| Choline Chloride                          | 67-48-1    | HOCH <sub>2</sub> CH <sub>2</sub> N(CH <sub>3</sub> ) <sub>3</sub> Cl                    | 1.397E-04     | 0.140     | 1.000E-03 | 1.000     |
| Folic Acid                                | 59-30-3    | C <sub>19</sub> H <sub>19</sub> N <sub>7</sub> O <sub>6</sub>                            | 4.414E-04     | 0.441     | 1.000E-03 | 1.000     |
| Niacinamide (Nicotinamide)                | 98-92-0    | C <sub>6</sub> H <sub>6</sub> N <sub>2</sub> O                                           | 1.221E-04     | 0.122     | 1.000E-03 | 1.000     |
| Pyridoxine Monohydrochloride              | 58-56-0    | C <sub>8</sub> H <sub>11</sub> NO <sub>3</sub>                                           | 2.036E-04     | 0.204     | 9.904E-04 | 0.990     |
| Riboflavin (Vitamin B2)                   | 83-88-5    | C <sub>17</sub> H <sub>20</sub> N <sub>4</sub> O <sub>6</sub>                            | 3.764E-05     | 3.764E-02 | 1.000E-04 | 0.100     |
| Thiamine Monohydrochloride (Vitamin B1)   | 67-03-8    | C <sub>12</sub> H <sub>18</sub> N <sub>4</sub> O <sub>4</sub> S                          | 3.373E-04     | 0.337     | 9.999E-04 | 1.000     |
| Phenol Red                                | 34487-61-1 | C <sub>19</sub> H <sub>14</sub> O <sub>5</sub> S                                         | 1.000E-02     | 10.000    | 2.657E-02 | 26.567    |