

## Hank's Balanced Salt Solutions (HBSS)

| Catalog No.   | 20-021 10X,<br>Liquid HBSS | 20-023 10X,<br>Liquid HBSS | 21-020 1X,<br>Liquid HBSS | 21-021 1X,<br>Liquid HBSS | 21-022 1X,<br>Liquid HBSS | 21-023 1X,<br>Liquid HBSS | 55-021<br>Powder HBSS | 55-022<br>Powder HBSS |
|---|----------------------------|----------------------------|---------------------------|---------------------------|---------------------------|---------------------------|-----------------------|-----------------------|
| <b>Inorganic Salts</b>                                  | <b>g/L</b>                 | <b>g/L</b>                 | <b>g/L</b>                | <b>g/L</b>                | <b>g/L</b>                | <b>g/L</b>                | <b>g/L</b>            | <b>g/L</b>            |
| CaCl <sub>2</sub> (anhydrous)                           | --                         | 1.4                        | 0.14                      | --                        | --                        | 0.14                      | --                    | --                    |
| KCl   | 4.00                       | 4.00                       | 0.40                      | 0.40                      | 0.40                      | 0.40                      | 0.40                  | 0.40                  |
| KH <sub>2</sub> PO <sub>4</sub>                         | 0.60                       | 0.60                       | 0.06                      | 0.06                      | 0.06                      | 0.06                      | 0.06                  | 0.06                  |
| MgSO <sub>4</sub> (anhydrous)                           | --                         | 0.977                      | 0.0977                    | --                        | --                        | 0.0977                    | --                    | --                    |
| NaCl  | 80.00                      | 80.00                      | 8.00                      | 8.00                      | 8.00                      | 8.00                      | 8.00                  | 8.00                  |
| Na <sub>2</sub> HPO <sub>4</sub> (anhydrous)            | 0.477                      | 0.477                      | 0.0477                    | 0.0477                    | 0.0477                    | 0.0477                    | 0.0477                | 0.0477                |
| NaHCO <sub>3</sub>                                      | --                         | --                         | 0.35                      | 0.35                      | 0.35                      | 0.35                      | --                    | --                    |
| <b>Other</b>  |                            |                            |                           |                           |                           |                           |                       |                       |
| D-Glucose   | 10.00                      | 10.00                      | 1.00                      | 1.00                      | 1.00                      | 1.00                      | 1.00                  | 1.00                  |
| Phenol Red, Na  | 0.10                       | --                         | 0.01                      | 0.01                      | --                        | --                        | 0.01                  | --                    |
| <b>Add</b>  |                            |                            |                           |                           |                           |                           |                       |                       |
| NaHCO <sub>3</sub><br>Powder (g/L)                      | 0.35                       | --                         | --                        | --                        | --                        | --                        | 0.35                  | 0.35                  |
| 7.5% Solution (mL/L)                                    | 4.67                       | --                         | --                        | --                        | --                        | --                        | 4.67                  | 4.67                  |
| <b>Specifications</b>                                   |                            |                            |                           |                           |                           |                           |                       |                       |
| pH (before adjustment)                                  | --                         | --                         | --                        | --                        | --                        | --                        | --                    | 6.6 ± 0.5             |
| Final pH  | 6.0 ± 1.0                  | 4.75 ± 0.25                | 7.25 ± 0.15               | 7.2 ± 0.2                 | 7.25 ± 0.15               | 7.25 ± 0.15               | 7.25 ± 0.15           | 7.2 ± 0.2             |
| Osmolality (mOsm/kg)                                    | 275 ± 30 (1:10)            | 275 ± 30 (1:10)            | 275 ± 15                  | 275 ± 15                  | 271 ± 15                  | 287 ± 15                  | 282 ± 15              | 281 ± 15              |
| Grams of powder required to<br>prepare 1L (1X Solution) | --                         | --                         | --                        | --                        | --                        | --                        | 9.52                  | 9.51                  |