

# From Discovery to Launch

Advancion provides dedicated support for multiple Life Sciences applications, including molecular, biotechnology and pharmaceutical. We offer specialized testing, custom blending and multiple packaging options to meet a wide variety of customer needs. Discover how we can work with you to identify the optimal solutions for your organization.



## PACKAGING

- cGMP IPEC-PQG
- Wide range of available packaging configurations



## ANALYTICAL

- ICP/MS
- GC and HPLC
- ISO 9001: 2015 certified



## WAREHOUSING

- On-site storage options
- Ambient and controlled temperature capabilities



## PURCHASING

- Global sourcing capabilities
- Formalized supplier lifecycle management program
- Non-animal origin

### Product Stewardship

Through our investments in application and new product development, we have a deep understanding of where our chemistries are (and can potentially be) used to actively address global trends in Life Sciences, Beauty and Personal Care, and other essential industries to help make our lives healthier, and more sustainable and comfortable. To help ensure that Advancion products are not used in ways for which they are not intended, Advancion personnel will assist customers in dealing with environmental and product safety considerations. Before handling any of the products, obtain available product safety information including the Safety Data Sheet(s) and take the necessary steps to ensure safety of use. For assistance, product Safety Data Sheets, or other information, please visit [advancionsciences.com](https://advancionsciences.com) or contact us at [info@advancionsciences.com](mailto:info@advancionsciences.com).

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## LIFE SCIENCES

# Biochemicals and Biomolecules

## Selection Guide

Dedicated To What Matters

At Advancion, we are committed to delivering high-quality chemistries from the world’s leading producers through a qualified, traceable and integrated supply chain. We promote consistency and sustainability in our processes by following a single Quality Management System applicable to all our biochemical, buffer and salt products. Our dedication to providing superior products and supply chain solutions for your R&D, scale-up and production needs is more than just an ongoing commitment – **it’s what we do.**

| Product Information                |  |             |            |             |             |             |           |      |                 |             |  |                  |              | Application                            |                                 |
|------------------------------------|--|-------------|------------|-------------|-------------|-------------|-----------|------|-----------------|-------------|--|------------------|--------------|--|---------------------------------|
|                                    |  | GMID (100g) | GMID (1kg) | GMID (10kg) | GMID (25kg) | GMID (50kg) | Compendia | cGMP | COO             | CAS #       | Formula  | Molecular Weight | BSE/TSE FREE | Upstream Fermentation and Cell Harvest | Downstream Protein Purification |
| AMINO ACIDS AND RELATED SUBSTANCES | Hypoxanthine Sodium                    | 145998      | 146001     | –           | 146000      | –           | –         |      | China           | 45738-97-4  | C <sub>5</sub> H <sub>3</sub> N <sub>4</sub> NaO                                 | 158.11           | ●            | ●                                      |                                 |
|                                    | L-Asparagine Anhydrous                 | –           | 146039     | –           | 149651      | –           | –         | ●    | Italy           | 70-47-3     | C <sub>4</sub> H <sub>8</sub> N <sub>2</sub> O <sub>3</sub>                      | 132.12           | ●            | ●                                      |                                 |
|                                    | L-Asparagine Monohydrate               | –           | –          | 151691      | 146052      | –           | FCC/EP    | ●    | Italy           | 5794-13-8   | C <sub>4</sub> H <sub>10</sub> N <sub>2</sub> O <sub>4</sub>                     | 150.13           | ●            | ●                                      |                                 |
|                                    | L-Glutamine                            | –           | –          | 215968*     | –           | –           | –         | ●    | Brazil          | 56-85-9     | C <sub>5</sub> H <sub>10</sub> N <sub>2</sub> O <sub>3</sub>                     | 146.15           | ●            | ●                                      |                                 |
|                                    | L-Glutamine                            | –           | 375711     | 375712▲     | –           | –           | USP       | ●    | Brazil          | 56-85-9     | C <sub>5</sub> H <sub>10</sub> N <sub>2</sub> O <sub>3</sub>                     | 146.15           | ●            | ●                                      |                                 |
|                                    | L-Tyrosine Disodium Salt Dihydrate     | –           | –          | 149693      | 146228      | –           | –         |      | USA             | 122666-87-9 | C <sub>9</sub> H <sub>9</sub> NO <sub>3</sub> Na <sub>2</sub> •2H <sub>2</sub> O | 261.19           | ●            | ●                                      |                                 |
|                                    | Pyruvic Acid Sodium                    | –           | 234256●    | –           | 146418      | –           | –         |      | China           | 113-24-6    | C <sub>3</sub> H <sub>3</sub> NaO <sub>3</sub>                                   | 110.04           | ●            | ●                                      |                                 |
| BIOCHEMICALS, BUFFERS AND SALTS    | Calcium Chloride Anhydrous             | –           | –          | 151948      | 376173      | –           | ACS       |      | Japan           | 10043-52-4  | CaCl <sub>2</sub>  | 110.98           | ●            | ●                                      | ●                               |
|                                    | Choline Chloride                       | –           | –          | 145761●     | –           | –           | FCC       | ●    | China           | 67-48-1     | C <sub>5</sub> H <sub>14</sub> ClNO  | 139.62           | ●            | ●                                      | ●                               |
|                                    | Choline Chloride                       | –           | 149665     | 255861●     | –           | –           | USP       | ●    | USA and China** | 67-48-1     | C <sub>5</sub> H <sub>14</sub> ClNO  | 139.62           | ●            | ●                                      | ●                               |
|                                    | Magnesium Chloride Anhydrous           | –           | –          | –           | –           | 146245      | –         |      | USA             | 7786-30-3   | MgCl <sub>2</sub>  | 95.21            | ●            | ●                                      | ●                               |
|                                    | Magnesium Sulfate Anhydrous            | –           | –          | 149695      | 146254      | 149633      | USP       | ●    | USA             | 7487-88-9   | MgSO <sub>4</sub>  | 120.36           | ●            | ●                                      | ●                               |
|                                    | Potassium Chloride                     | –           | –          | –           | 252844      | –           | USP/EP    | ●    | USA             | 7447-40-7   | KCl  | 74.55            | ●            | ●                                      | ●                               |
|                                    | Sodium Phosphate Dibasic Anhydrous     | –           | –          | 146479      | –           | 146478      | ACS/USP   | ●    | USA             | 7558-79-4   | Na <sub>2</sub> HPO <sub>4</sub>   | 141.96           | ●            | ●                                      | ●                               |
|                                    | Sodium Phosphate Dibasic Heptahydrate  | –           | –          | –           | –           | 146486      | ACS/USP   | ●    | USA             | 7782-85-6   | Na <sub>2</sub> HPO <sub>4</sub> •7H <sub>2</sub> O                              | 268.07           | ●            | ●                                      | ●                               |
|                                    | Sodium Phosphate Monobasic Anhydrous   | –           | –          | 146491      | –           | –           | USP       | ●    | USA             | 7558-80-7   | NaH <sub>2</sub> PO <sub>4</sub>   | 119.98           | ●            | ●                                      | ●                               |
|                                    | Sodium Phosphate Monobasic Monohydrate | –           | –          | –           | –           | 149713      | ACS/USP   | ●    | USA             | 10049-21-5  | NaH <sub>2</sub> PO <sub>4</sub> •H <sub>2</sub> O                               | 137.99           | ●            | ●                                      | ●                               |
| VITAMINS AND NUCLEOTIDES           | D-(+)-Biotin                           | 145795      | –          | –           | –           | –           | USP/EP    | ●    | China           | 58-85-5     | C <sub>10</sub> H <sub>16</sub> N <sub>2</sub> O <sub>3</sub> S                  | 244.31           | ●            | ●                                      |                                 |
|                                    | Cyanocobalamin                         | 255878      | 376046     | –           | –           | –           | USP/EP    | ●    | China           | 68-19-9     | C <sub>63</sub> H <sub>88</sub> CoN <sub>14</sub> O <sub>14</sub> P              | 1355.39          | ●            | ●                                      |                                 |
|                                    | Cyanocobalamin                         | 146575      | –          | –           | –           | –           | USP       | ●    | China           | 68-19-9     | C <sub>63</sub> H <sub>88</sub> CoN <sub>14</sub> O <sub>14</sub> P              | 1355.39          | ●            | ●                                      |                                 |
|                                    | Cytidine                               | 254733      | 145789     | –           | –           | –           |           |      | Canada          | 65-46-3     | C <sub>9</sub> H <sub>13</sub> N <sub>3</sub> O <sub>5</sub>                     | 243.22           | ●            | ●                                      |                                 |
|                                    | Thymidine                              | 146535      | 146536     | –           | –           | –           | –         |      | Canada          | 50-89-5     | C <sub>10</sub> H <sub>14</sub> N <sub>2</sub> O <sub>5</sub>                    | 242.23           | ●            | ●                                      |                                 |

\*7kg ● 2.5kg ▲ 12kg

\*\*Depending on package size