

FROM DISCOVERY TO LAUNCH

DISCOVER A **BETTER WAY™** with **ANGUS**

ANGUS Life Sciences, a business of the ANGUS Chemical Company, 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

- Formalized supplier qualification process
- Focus on sustainability
- Non-animal origin

PRODUCT STEWARDSHIP

ANGUS encourages its customers to review their applications of ANGUS products from the standpoint of human health and environmental quality. To help ensure that ANGUS products are not used in ways for which they are not intended, ANGUS personnel will assist customers in dealing with environmental and product safety considerations. For assistance, product Safety Data Sheets, or other information, please visit **angus.com** or contact us at **info@angus.com**.



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BIOCHEMICALS AND BIOMOLECULES

Selection Guide

DISCOVER A **BETTER WAY™**

DEDICATED TO WHAT MATTERS

At ANGUS Life Sciences, 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 at ANGUS Life Sciences. 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 DERIVATIVES	Hypoxanthine Sodium	145998	146001	–	–	–	–		China	45738-97-4	C ₅ H ₃ N ₄ NaO	158.11		☑	
	L-Asparagine Anhydrous	–	146039	–	149651	–	–	☑	Italy	70-47-3	C ₄ H ₈ N ₂ O ₃	132.12	☑	☑	
	L-Asparagine Monohydrate	–	–	–	146052	146057	FCC/EP	☑	Italy	5794-13-8	C ₄ H ₁₀ N ₂ O ₄	150.13	☑	☑	
	L-Glutamine	–	–	215968**	–	–	–		Brazil	56-85-9	C ₅ H ₁₀ N ₂ O ₃	146.15	☑	☑	
	L-Tyrosine Disodium Salt Dihydrate	–	–	149693	146228	–	–		USA	122666-87-9	C ₉ H ₉ NO ₃ Na ₂ •2H ₂ O	261.19	☑	☑	
	Pyruvic Acid Sodium	–	–	–	146418	–	–		China	113-24-6	C ₃ H ₃ NaO ₃	110.04		☑	
BIOCHEMICALS AND BUFFERS	Ammonium Sulfate	–	–	375458	–	–	NF/ACS	☑	USA	7783-20-2	(NH ₄) ₂ SO ₄	132.14	☑	☑	☑
	Calcium Chloride Anhydrous Dessicant	–	–	151948	–	–	ACS		Japan	10043-52-4	CaCl ₂	110.98	☑	☑	☑
	Choline Chloride	–	–	149665	–	–	USP Dietary Supplements	☑	USA	67-48-1	C ₅ H ₁₄ ClNO	139.62	☑	☑	☑
	HEPES	–	–	11092843*	326736	–	–		USA	7365-45-9	C ₈ H ₁₈ N ₂ O ₄ S	238.30	☑	☑	☑
	HEPES Sodium Salt	–	145965	–	304802	–	–		USA/China	75277-39-3	C ₈ H ₁₇ N ₂ O ₄ SNa	260.28	☑	☑	☑
	Magnesium Chloride Anhydrous	–	–	–	–	146245	–		USA	7786-30-3	MgCl ₂	95.21	☑	☑	☑
	Magnesium Sulfate Anhydrous	–	–	149695	146254	–	USP	☑	Japan	7487-88-9	MgSO ₄	120.36	☑	☑	☑
	Potassium Chloride	–	–	–	252844	–	USP/EP	☑	USA	7447-40-7	KCl	74.55	☑	☑	☑
	Sodium Acetate Trihydrate	–	–	375494	375495	375708	USP/EP	☑	USA	6131-90-4	NaC ₂ H ₃ •3H ₂ O	136.08	☑	☑	☑
	Sodium Phosphate Dibasic Anhydrous	–	–	146479	–	146478	ACS/USP	☑	USA	7558-79-4	Na ₂ HPO ₄	141.96	☑	☑	☑
	Sodium Phosphate Dibasic Heptahydrate	–	–	–	146486	–	ACS/USP	☑	USA	7782-85-6	Na ₂ HPO ₄ •7H ₂ O	268.07	☑	☑	☑
	Sodium Phosphate Monobasic Anhydrous	–	–	–	146491	–	USP	☑	USA	7558-80-7	NaH ₂ PO ₄	119.98	☑	☑	☑
Sodium Phosphate Monobasic Monohydrate	–	–	–	–	149713	ACS/USP	☑	USA	10049-21-5	NaH ₂ PO ₄ •H ₂ O	137.99	☑	☑	☑	
VITAMINS AND NUCLEOTIDES	D-(+)-Biotin	–	145795	–	–	–	USP/EP	☑	China	58-85-5	C ₁₀ H ₁₆ N ₂ O ₃ S	244.31	☑	☑	
	Cyanocobalamin	255878	–	–	–	–	USP/EP	☑	China	68-19-9	C ₆₃ H ₈₈ CoN ₁₄ O ₁₄ P	1355.39	☑	☑	
	Cyanocobalamin	146575	–	–	–	–	USP	☑	China	68-19-9	C ₆₃ H ₈₈ CoN ₁₄ O ₁₄ P	1355.39	☑	☑	
	Cytidine	–	254733	–	–	–			Canada	65-46-3	C ₉ H ₁₃ N ₃ O ₅	243.22	☑	☑	
	Thymidine	146535	146536	–	–	–	–		Canada	50-89-5	C ₁₀ H ₁₄ N ₂ O ₅	242.23	☑	☑	

* 12 kg
**7 kg