



BIOCHEMICALS AND BIOMOLECULES

Selection Guide

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 RELATED SUBSTANCES	Hypoxanthine Sodium	145998	146001	-	146000	-		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	-	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-Glutamine	-	375711	375712▲	-	-	USP	☑	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	-	234256●	-	146418	-	-		China	113-24-6	C ₃ H ₃ NaO ₃	110.04	☑	☑	
BIOCHEMICALS, BUFFERS AND SALTS	Calcium Chloride Anhydrous	-	-	151948	-	-	ACS	Japan	10043-52-4	CaCl ₂	110.98	☑	☑	☑	
	Choline Chloride	-	-	145761●	-	-	FCC	☑	USA	67-48-1	C ₅ H ₁₄ ClNO	139.62	☑	☑	☑
	Choline Chloride	-	149665	255861●	-	-	USP	☑	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	-	340802	-	-		USA	75277-39-3	C ₈ H ₁₇ N ₂ O ₄ SNa	260.28	☑	☑	☑
	HEPES Sodium Salt	-	-	-	145972	-	-		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 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	376046	-	-	-	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	145789	-	-	-	-		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	☑	☑	

*7kg ●2.5kg ▲12kg

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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



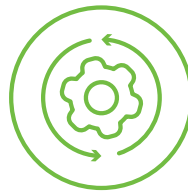
ANALYTICAL

- 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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