

 Nucleus Biologics	<h2>Customer Description/ Part Name</h2>	Document #: 00-SPEC-XXX-XXX
		Revision:
		Effective Date: See iGMP
		Page: 1 of 3
Owner Process: 19 - Custom FP Mfg.	Doc Owner: SVP of Operations	CR#:
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Product Material Specification										
Confidential Yes <input type="checkbox"/> No <input type="checkbox"/>	If yes, what is the customer code:									
Special Designation	Animal Source <input type="checkbox"/>	Antibiotic <input type="checkbox"/>	Steroid <input type="checkbox"/>	N/A <input type="checkbox"/>						
Nucleus Biologics Description										
Final Product Part Number										
Manufacturer										
Unit of Measure (UOM)										
Expiration Date										
Storage Requirements Prior to QC Testing										
Storage Requirements										
Shipping Requirements										
Packaging	1.00000 ± 0.00500 L in 1.00000 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Part Number</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>251</td> <td>PET Sterile Media Bottle with Tamper-Evident cap PTC1000S-A</td> </tr> <tr> <td>1022</td> <td>PET Corning Tamper Evident btl 1000mL, Fisher, 07-201-428</td> </tr> </tbody> </table>				Part Number	Description	251	PET Sterile Media Bottle with Tamper-Evident cap PTC1000S-A	1022	PET Corning Tamper Evident btl 1000mL, Fisher, 07-201-428
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251	PET Sterile Media Bottle with Tamper-Evident cap PTC1000S-A									
1022	PET Corning Tamper Evident btl 1000mL, Fisher, 07-201-428									
Documentation										
Quality Control Testing Requirements										
Ingredients per Liter	Abbreviations: ACF=Animal Component Free BP= British Pharmacopeia ChP= China Pharmacopeia EP= European Union Pharmacopeia FCC=Food Chemical Codex JP= Japan Pharmacopeia NA= not available NF-National Formulary QS = Quantity Sufficient USP = United States Pharmacopeia Powder Components:									



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Part Number	Part Name	CAS#	Grade/Purity	Concentration (g/L)
537	Potassium Nitrate	7757-79-1	ACS	0.0000760000
490	D-Glucose	50-99-7	ACS, NF, USP BP, EP, JP, USP	4.5000000000
534	D-Glucose-2			
577	D-Glucose-3			
818	Vitamin B12-3	68-19-9	BP, EP, USP 98% USP	0.0000130000
489	Vitamin B12			
732	Vitamin B12-2			
405	HEPES	7365-45-9	99.5%	5.9580000000
1327	HEPES-2		N/A	
463	Niacinamide	98-92-0	USP	0.0040000000
466	Riboflavin	83-88-5	FCC	0.0004000000
819	Vitamin B2		USP	
830	Vitamin B2-2		USP	
371	L-Valine	72-18-4	EP, JP, USP	0.0940000000
644	Biotin	58-85-5	99%	0.0000130000
814	D-Biotin		USP	
368	L-Threonine	72-19-5	EP, JP, USP	0.0950000000
825	L-Threonine-2		JP, USP	
369	L-Tryptophan	73-22-3	EP, JP, USP	0.0160000000
501	L-Tryptophan-2		USP	
826	L-Tryptophan-3		BP, EP, JP, USP	
366	L-Proline	147-85-3	EP, JP, USP	0.0400000000
367	L-Serine	56-45-1	EP, JP, USP	0.0420000000
359	L-Methionine	63-68-3	EP, JP, USP	0.0300000000
360	L-Phenylalanine	63-91-2	EP, JP, USP	0.0660000000
356	L-Isoleucine	73-32-5	EP, JP, USP	0.1050000000
357	L-Leucine	61-90-5	EP, JP, USP	0.1050000000
364	L-Aspartic Acid	56-84-8	EP, JP, USP	0.0300000000
724	L-Aspartic Acid-2		EP, JP, USP	
824	L-Aspartic Acid-3 non-animal source		USP	
611	L-Cystine	30925-07-6	98.0-102.0%	0.0912400000
744	Dihydrochloride-2		97.0%	
756	L-Cystine dihydrochloride-3		98.0%	
	L-Cystine Dihydrochloride			
349	L-Alanine	56-41-7	EP, JP, USP	0.0250000000
486	L-Asparagine	5794-13-8	99.0%	0.0284000000
632	Monohydrate L-Asparagine Monohydrate-2		EP, NF	
1153	Glycine-2	56-40-6	98.5 to 101.0 %	0.0300000000
365	Glycine		EP, JP, USP	
Total weight of dry components:				11.2601420000 g/L
Liquid Components:				
Part Number	Part Name	CAS#	Grade/Purity	Concentration (mL/L)
Total volume of liquid components:				0.0000000000 mL/L
Preferred Filter Information (Pore Size and Material)				



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