

 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: 20%;">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
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									
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)
369	L-Tryptophan	73-22-3	EP, JP, USP	0.0100000000
501	L-Tryptophan-2		USP	
826	L-Tryptophan-3		BP, EP, JP, USP	
359	L-Methionine	63-68-3	EP, JP, USP	0.0150000000
611	L-Cystine	30925-07-6	98.0-102.0%	0.0312000000
744	Dihydrochloride-2		97.0%	
756	L-Cystine dihydrochloride-3		98.0%	
360	L-Phenylalanine	63-91-2	EP, JP, USP	0.0325000000
355	L-Histidine HCL H2O	5934-29-2	EP, JP	0.0419000000
371	L-Valine	72-18-4	EP, JP, USP	0.0468000000
368	L-Threonine	72-19-5	EP, JP, USP	0.0476000000
825	L-Threonine-2		JP, USP	
761	L-Tyrosine Disodium Salt Dihy	122666-87-9	98%	0.0519000000
765	L-Tyrosine Disodium Salt Dihyd		ACF	
840	L-Tyrosine Disodium Salt Dihydrate		99%	
357	L-Leucine	61-90-5	EP, JP, USP	0.0525000000
356	L-Isoleucine	73-32-5	EP, JP, USP	0.0525000000
358	L-Lysine HCL	657-27-2	EP, JP, USP	0.0725000000
822	L-Lysine HCL-2		BP, EP, JP, USP	
823	L-Lysine HCL-3		BP, EP, FCC, JP, USP	
352	L-Arginine HCL	1119-34-2	EP, JP, USP	0.1264000000
344	L-Glutamine Powder	56-85-9	DAB, JP, USP	0.2920000000
427	Magnesium Sulfate	7487-88-9	USP	0.0977000000
479	Anhy. Powder		ACS	
540	Magnesium Sulfate Anhydrous		USP	
753	Magnesium Sulfate Anhydrous-2			
753	Sodium Phosphate Monobasic Mo	10049-21-5	USP	0.1400000000
550	Calcium Chloride Anhydrous	10043-52-4	FCC	0.2000000000
554	Potassium Chloride	7477-40-7	BP, EP, JP, USP	0.4000000000
555	Sodium Bicarbonate	144-55-8	BP, EP, JP, USP	2.2000000000
881	Sodium Bicarbonate-2		BP, EP, JP, USP =99.5%	
1331	Sodium Bicarbonate-3			
340	Sodium Chloride Powder	7647-14-5	99.5%	6.8000000000
556	Sodium Chloride		BP, EP, JP, USP	
730	Phenol Red sodium salt-2	34487-61-1	ACS	0.0100000000
583	Phenol Red Sodium Salt		ACS	
490	D-Glucose	50-99-7	ACS, NF, USP	1.0000000000
534	D-Glucose-2		BP, EP, JP, USP	
577	D-Glucose-3		BP, EP, JP, USP	
466	Riboflavin	83-88-5	FCC	0.0001000000
819	Vitamin B2		USP	
830	Vitamin B2-2		USP	
465	Pyridoxine	58-56-0	FCC	0.0010000000



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	608	Hydrochloride Pyridoxine Hydrochloride-2		USP	
	461	Folic Acid	59-30-3	USP	0.0010000000
	467	Thiamine	67-03-8	FCC	0.0010000000
	833	Hydrochloride		USP	
	1501	Vitamin B1 Thiamine hydrochloride-2		USP	
	487	Choline Chloride	67-48-1	USP	0.0010000000
	719	Choline chloride-2 synthetic		99.0%	
	460	D-Calcium Pantothenate	137-08- 6	USP	0.0010000000
	463	Niacinamide	98-92-0	USP	0.0010000000
	462	myo-Inositol	87-89-8	FCC	0.0020000000
	884	myo-Inositol-2		EP, FCC, NF	
	Total weight of dry components:				11.7286000000 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)					
Retain Information					



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