

 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
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)
369 501 826	L-Tryptophan L-Tryptophan-2 L-Tryptophan-3	73-22-3	EP, JP, USP USP BP, EP, JP, USP	0.0160000000
1153 365	Glycine-2 Glycine	56-40-6	98.5 to 101.0 % EP, JP, USP	0.0300000000
359	L-Methionine	63-68-3	EP, JP, USP	0.0300000000
367	L-Serine	56-45-1	EP, JP, USP	0.0420000000
355	L-Histidine HCL H2O	5934-29-2	EP, JP	0.0420000000
611 744 756	L-Cystine Dihydrochloride-2 L-Cystine dihydrochloride-3 L-Cystine Dihydrochloride	30925-07-6	98.0-102.0% 97.0% 98.0%	0.0625700000
360	L-Phenylalanine	63-91-2	EP, JP, USP	0.0660000000
352	L-Arginine HCL	1119-34-2	EP, JP, USP	0.0840000000
371	L-Valine	72-18-4	EP, JP, USP	0.0940000000
368 825	L-Threonine L-Threonine-2	72-19-5	EP, JP, USP JP, USP	0.0952000000
761 765 840	L-Tyrosine Disodium Salt Dihy L-Tyrosine Disodium Salt Dihyd L-Tyrosine Disodium Salt Dihydrate	122666-87-9	98% ACF 99%	0.1037900000
357	L-Leucine	61-90-5	EP, JP, USP	0.1048000000
356	L-Isoleucine	73-32-5	EP, JP, USP	0.1048000000
358 822 823	L-Lysine HCL L-Lysine HCL-2 L-Lysine HCL-3	657-27-2	EP, JP, USP BP, EP, JP, USP BP, EP, FCC, JP, USP	0.1462000000
344	L-Glutamine Powder	56-85-9	DAB, JP, USP	0.5840000000
476 726	Iron(III) Nitrate Nonahydrate Iron(III) Nitrate Nonahydrate-2	7782-61-8	ACS ACS, NF, USP	0.0001000000
427 479 540	Magnesium Sulfate Anhy. Powder Magnesium Sulfate Anhydrous Magnesium Sulfate Anhydrous-2	7487-88-9	USP ACS USP	0.0977000000
753	Sodium Phosphate Monobasic Mo	10049-21-5	USP	0.1250000000
550	Calcium Chloride Anhydrous	10043-52-4	FCC	0.2000000000
554	Potassium Chloride	7477-40-7	BP, EP, JP, USP	0.4000000000
555 881 1331	Sodium Bicarbonate Sodium Bicarbonate-2 Sodium Bicarbonate-3	144-55-8	BP, EP, JP, USP BP, EP, JP, USP =99.5%	3.7000000000
340 556	Sodium Chloride Powder Sodium Chloride	7647-14-5	99.5% BP, EP, JP, USP	6.4000000000
730 583	Phenol Red sodium salt-2 Phenol Red Sodium Salt	34487-61-1	ACS ACS	0.0150000000



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490	D-Glucose	50-99-7	ACS, NF, USP	4.500000000
534	D-Glucose-2		BP, EP, JP, USP	
577	D-Glucose-3		BP, EP, JP, USP	
466	Riboflavin	83-88-5	FCC	0.000400000
819	Vitamin B2		USP	
830	Vitamin B2-2		USP	
465	Pyridoxine	58-56-0	FCC	0.004000000
608	Hydrochloride		USP	
	Pyridoxine			
	Hydrochloride-2			
461	Folic Acid	59-30-3	USP	0.004000000
467	Thiamine	67-03-8	FCC	0.004000000
833	Hydrochloride		USP	
1501	Vitamin B1		USP	
	Thiamine			
	hydrochloride-2			
487	Choline Chloride	67-48-1	USP	0.004000000
719	Choline chloride-2		99.0%	
	synthetic			
460	D-Calcium	137-08-6	USP	0.004000000
	Pantothenate			
463	Niacinamide	98-92-0	USP	0.004000000
462	myo-Inositol	87-89-8	FCC	0.007200000
884	myo-Inositol-2		EP, FCC, NF	
Total weight of dry components:				17.074760000 g/L
Liquid Components:				
Part Number	Part Name	CAS#	Grade/Purity	Concentration (mL/L)
Total volume of liquid components:				0.000000000 mL/L
Preferred Filter Information (Pore Size and Material)				
Retain Information				



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