

 Nucleus Biologics	<h2>Customer Description/ Part Name</h2>	Document #: 00-SPEC-XXX-XXX
		Revision:
		Effective Date: See iGMP
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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)
352	L-Arginine HCL	1119-34-2	EP, JP, USP	0.0421400000
761 765 840	L-Tyrosine Disodium Salt Dihy L-Tyrosine Disodium Salt Dihy L-Tyrosine Disodium Salt Dihydrate	122666-87-9	98% ACF 99%	0.0261000000
366	L-Proline	147-85-3	EP, JP, USP	0.0172700000
755	Hydroxy L-Proline	51-35-4	99.0%	0.0196700000
1153 365	Glycine-2 Glycine	56-40-6	98.5 to 101.0 % EP, JP, USP	0.0075100000
349	L-Alanine	56-41-7	EP, JP, USP	0.0133600000
367	L-Serine	56-45-1	EP, JP, USP	0.0262800000
364 724 824	L-Aspartic Acid L-Aspartic Acid-2 non-animal source L-Aspartic Acid-3	56-84-8	EP, JP, USP EP, JP, USP USP	0.0199700000
344	L-Glutamine Powder	56-85-9	DAB, JP, USP	0.2191500000
581 353 472 535 545 728	L-Glutamic Acid-5 L-Glutamic Acid L-Glutamic Acid-2 L-Glutamic Acid-3 L-Glutamic Acid-4 L-glutamic acid-6 non-animal source	56-86-0	EP, JP, USP EP 99.0% BP, EP, USP FCC EP	0.0220700000
361	L-Cysteine	52-90-4	DAB	0.0242400000
486 632	L-Asparagine Monohydrate L-Asparagine Monohydrate-2	5794-13-8	99.0% EP, NF	0.0450300000
355	L-Histidine HCL H2O	5934-29-2	EP, JP	0.0209600000
357	L-Leucine	61-90-5	EP, JP, USP	0.0393600000
360	L-Phenylalanine	63-91-2	EP, JP, USP	0.0165200000
359	L-Methionine	63-68-3	EP, JP, USP	0.0149200000
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	0.0365400000
371	L-Valine	72-18-4	EP, JP, USP	0.0175700000
368 825	L-Threonine L-Threonine-2	72-19-5	EP, JP, USP JP, USP	0.0178700000
369 501 826	L-Tryptophan L-Tryptophan-2 L-Tryptophan-3	73-22-3	EP, JP, USP USP BP, EP, JP, USP	0.0030600000
356	L-Isoleucine	73-32-5	EP, JP, USP	0.0393600000
550	Calcium Chloride Anhydrous	10043-52-4	FCC	0.1324324000
554	Potassium Chloride	7477-40-7	BP, EP, JP, USP	0.4000000000
427 479 540	Magnesium Sulfate Anhy. Powder Magnesium Sulfate Anhydrous Magnesium Sulfate Anhydrous-2	7487-88-9	USP ACS USP	0.0976876000
340 556	Sodium Chloride Powder Sodium Chloride	7647-14-5	99.5% BP, EP, JP, USP	6.4600000000
730	Phenol Red sodium	34487-	ACS	0.0110000000



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	583	salt-2 Phenol Red Sodium Salt	61-1	ACS	
	490 534 577	D-Glucose D-Glucose-2 D-Glucose-3	50-99-7	ACS, NF, USP BP, EP, JP, USP BP, EP, JP, USP	3.000000000
	468 655	Glutathione Reduced L-Glutathione Reduced-2	70-18-8	98% 98%	0.000500000
	1083	Bovine Peptone	91079- 38-8	10.0-16.0%	0.600000000
	753	Sodium Phosphate Monobasic Mo	10049- 21-5	USP	0.504000000
	464	Para-aminobenzoic Acid	150-13- 0	USP	0.001000000
	621	Ascorbic Acid	50-81-7	USP	0.000562500
	465 608	Pyridoxine Hydrochloride Pyridoxine Hydrochloride-2	58-56-0	FCC USP	0.000500000
	644 814	Biotin D-Biotin	58-85-5	99% USP	0.000200000
	461	Folic Acid	59-30-3	USP	0.010000000
	599	Nicotinic Acid	59-67-6	99%	0.000500000
	488	Pyridoxal Hydrochloride	65-22-5	98%	0.000500000
	467 833 1501	Thiamine Hydrochloride Vitamin B1 Thiamine hydrochloride-2	67-03-8	FCC USP USP	0.000200000
	487 719	Choline Chloride Choline chloride-2 synthetic	67-48-1	USP 99.0%	0.005000000
	818 489 732	Vitamin B12-3 Vitamin B12 Vitamin B12-2	68-19-9	BP, EP, USP 98% USP	0.002000000
	466 819 830	Riboflavin Vitamin B2 Vitamin B2-2	83-88-5	FCC USP USP	0.000200000
	462 884	myo-Inositol myo-Inositol-2	87-89-8	FCC EP, FCC, NF	0.036000000
	463	Niacinamide	98-92-0	USP	0.000500000
	460	D-Calcium Pantothenate	137-08- 6	USP	0.000200000
	Total weight of dry components:				11.9519325000 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)					



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