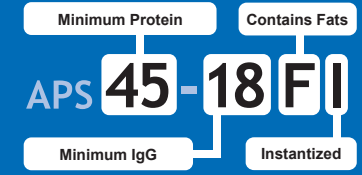


APS Colostrum Powders



Component Typical Analysis (wet basis)	Whole Colostrum Powders	Skim Colostrum Powders						
	APS 45-18F	APS45-10	APS50-15	APS60-20	APS64-25	APS70-30	APS70-35	APS70-40
Bioactive Components								
PRP [%]	4.2	2.3	3.6	4.5	4.0	2.8	0.4	0.3
Total Ig [%]	20.0	14.3	16.7	24.6	26.7	34.0	41.3	45.1
IgG [%]	19.2	13.4	16.1	23.6	25.9	32.8	36.5	41.2
Lactoferrin [%]	1.3	1.1	1.2	1.3	1.4	1.5	1.7	1.7
IGF-1 [ppm]	1.5	1.5	1.4	1.6	1.7	1.8	1.9	2.0
Nutritional Components								
Protein [%]	53.7	50.0	58.2	62.3	68.7	73.1	76.4	78.0
Fat [%]	23.1	1.7	2.1	2.7	2.9	3.0	3.1	3.2
Lactose [%]	16.1	35.2	27.9	24.0	17.5	13.2	10.6	4.8
Ash [%]	6.9	8.7	7.2	6.6	6.4	6.0	5.2	5.0
Moisture [%]	3.8	4.4	4.6	4.4	4.5	4.7	4.7	4.5
Microbiology Components								
SPC (CFU/g)	< 10,000					< 10,000		
Yeast/Mold (CFU/g)	< 50 CFU/g					< 50 CFU/g		
E.Coli	Negative					Negative		
Coliform bacteria	Negative					Negative		
Salmonella spp.	Negative					Negative		
Listeria spp.	Negative					Negative		
Staph. aureus	Negative					Negative		
Bacillus cereus	Negative					Negative		
Enterobacter sakazakii	Negative					Negative		
Antibiotics	Negative (beta-lactams)					Negative (beta-lactams)		
Physical Components								
Appearance	Cream-colored					Cream-colored		
Scorched Particle	A					A		
Bulk Density (g/cc)	> 0.3					> 0.3		

All APS colostrum powders are agglomerated and also available in an instantized form, using soy lecithin, which makes the powder very soluble in liquids. Suggested applications for instantized colostrum powders include infant/geriatric formula, tablets, capsules, beverages, yoghurt, ice cream, nutrition bars, sachets, and cosmetics.



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APS Colostrum Powders

Minimum Protein
Contains Fats
APS 45-18 FI
Minimum IgG
Instantized

	Immulox Powder	High Protein Skim Colostrum Powders								
Component Typical Analysis (wet basis)	Immulox Powder	APS64-15	APS64-20	APS64-35	APS70-15	APS70-20	APS70-25	APS80-15	APS80-20	APS80-25
Bioactive Components										
PRP [%]	14.0	3.5	4.4	0.4	3.4	4.2	3.9	3.1	4.0	3.8
Total Ig [%]	16.7	16.5	23.9	39.6	16.5	24.9	26.7	16.4	24.2	26.2
IgG [%]	16.1	15.9	22.8	36.2	15.8	24.2	26.2	15.8	22.7	25.8
Lactoferrin [%]	1.2	1.2	1.3	1.6	1.2	1.3	1.4	1.2	1.3	1.5
IGF-1 [ppm]	1.4	1.4	1.6	1.8	1.4	1.6	1.7	1.4	1.6	1.7
Nutritional Components										
Protein [%]	35.2	68.0	71.7	83.4	72.0	71.2	74.3	82.0	83.2	84.1
Fat [%]	2.1	2.1	2.6	3.0	2.0	2.8	2.9	1.9	3.0	2.9
Lactose [%]	48.2	18.8	15.2	3.2	15.6	15.9	12.3	6.0	3.5	2.9
Ash [%]	12.1	6.5	6.2	6.0	5.7	5.9	6.1	5.9	5.8	5.5
Moisture [%]	4.6	4.6	4.3	4.4	4.7	4.2	4.4	4.2	4.5	4.6
Microbiology Components										
SPC (CFU/g)	< 10,000	< 10,000								
Yeast/Mold (CFU/g)	< 50 CFU/g	< 50 CFU/g								
E.Coli	Negative	Negative								
Coliform bacteria	Negative	Negative								
Salmonella spp.	Negative	Negative								
Listeria spp.	Negative	Negative								
Staph. aureus	Negative	Negative								
Bacillus cereus	Negative	Negative								
Enterobacter sakazakii	Negative	Negative								
Antibiotics	Negative (beta-lactams)	Negative (beta-lactams)								
Physical Components										
Appearance	Cream-colored	Cream-colored								
Scorched Particle	A	A								
Bulk Density (g/cc)	> 0.3	> 0.3								

All APS colostrum powders are agglomerated and also available in an instantized form, using soy lecithin, which makes the powder very soluble in liquids. Suggested applications for instantized colostrum powders include infant/geriatric formula, tablets, capsules, beverages, yoghurt, ice cream, nutrition bars, sachets, and cosmetics.



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