

# Customer Specification

CUSTOMER: **C0092**  
ITEM CODE: **1201-03**  
QUALITY PLAN:

**Colostrum Europe AB**  
**45-15l Whole Colostrum Powder-Instantized EU**  
**T1201-03**

<b>Product Description</b>	45-15l is an instantized, pasteurized colostrum powder produced from first day milking. It is processed both at low pressures and temperatures and is spray-dried using indirect steam to maintain maximum bio-activity. The colostrum used to produce 45-15l is from antibiotic-free sources.
<b>Product Packaging</b>	Colostrum Powder is packaged in double-walled corrugated boxes with a polyethylene liner. The box is 20.0 in x 15.5 in x 14.5 in. Each box holds 20 kg net.
<b>Product Shelf Life</b>	Colostrum proteins are hygroscopic and can absorb odors. Temperatures <75°F, relative humidity <65%, and an odor-free environment will extend storage life. Stocks should be used in rotation and preferably within three years.
<b>Product Certifications</b>	Kosher, Halal
<b>Ingredients</b>	Bovine colostrum, whey protein concentrate, medium-chain triglycerides, sunflower lecithin, natural flavor.
<b>Allergens</b>	Milk

<b>CHEMISTRY</b>	<u>Min</u>	<u>Max</u>	<u>UOM</u>	<u>Method</u>
Melamine	0.00	2.00	ppm	HPLC-WCX Method
pH	6.00	7.50		10% sol., 20°C
<b>COMPOSITION</b>	<u>Min</u>	<u>Max</u>	<u>UOM</u>	<u>Method</u>
Ash	3.00	9.00	%	AOAC 945.46
Fat	17.50	28.00	%	AOAC 932.06
Moisture	2.00	6.00	%	AOAC 927.05 (mod)
Protein (Dry Basis)	45.00	55.00	%	AOAC 991.20
<b>IMMUNOGLOBULIN</b>	<u>Min</u>	<u>Max</u>	<u>UOM</u>	<u>Method</u>
IgG (HPLC) Protein G (Dry Basis)	15.00	26.00	%	AOAC 2010.01 (mod)
<b>MICROBIOLOGY</b>	<u>Min</u>	<u>Max</u>	<u>UOM</u>	<u>Method</u>
Aerobic Plate Count	0.00	10,000.00	CFU/g	AOAC 990.12
Aflatoxin M1	0.00	0.05	ppb	MaxSignal Aflatoxin M1 ELISA
Bacillus cereus	0.00	50.00	CFU/g	FDA-BAM, Ch.14 (mod)
Coliform	0.00	50.00	CFU/g	AOAC 991.14
Cronobacter sakazakii (PCR)		Not Detected	100g	FDA-BAM, Ch.29 (PCR)
Escherichia coli		Not Detected	CFU/g	AOAC 991.14
Inhibitory Substances (Beta-Lactams)		Not Detected		Charm II
Listeria (PCR)		Not Detected	25g	FDA-BAM, Ch.10 (PCR)
Salmonella (PCR)		Not Detected	25g	FDA-BAM, Ch.5 (PCR)
Staphylococcus aureus		Not Detected		AOAC 2003.08
Yeast + Mold	0.00	50.00	CFU/g	AOAC 997.02
<b>MINERAL</b>	<u>Min</u>	<u>Max</u>	<u>UOM</u>	<u>Method</u>
<b>PHYSICAL</b>	<u>Min</u>	<u>Max</u>	<u>UOM</u>	<u>Method</u>
Appearance		Off white to cream color		Visual
Density Bulk p(B)	0.30	0.44	g/ml	USP <616>
Density Tapped p(T)	0.40	0.54	g/ml	USP <616>
Odor		Creamy		Organoleptic
Scorched Particle	B	A		GEA Niro A 4 a
Solubility		Good		Visual
Taste		Characteristic		Organoleptic