



### Certificate of Analysis

CERT-1-SEP-2021-69003  
Created: 14-JUL-2021

Material Description	ENFAMIL HMF PWD 0.71G (2X100PCH) US
SAP Material Number	1118909
Formulation	PL00000001
Item	2014-18
Inventory Batch	0609887
Regulatory Batch	ZL1GFH
Disposition	Accepted
Disposition Version	1
Manufacture Date	23-JUN-2021
Expiry Date	01-JUL-2022

Test Name	Sample Type	Blend - Variable Specification No.	Results	UoM	Result Code
Bacillus cereus-Final Conclusion- Israel	SINGLE	0 Pass	Pass		A
Bacillus cereus - Final Conclusion - BRA	SINGLE	0 Pass	Pass		A
Bacillus cereus - c value- BRA	SINGLE	0 <=1	0		A
Bacillus cereus-Final Conclusion- COL	SINGLE	0 Pass	Pass		A
Yeast Count	COMPOSITE	0 <=100	<10	CFU/g	A
Total Aerobic Plate Count- FC - Thailand	SINGLE	0 Pass	Pass		A
Total Aerobic Plate Count	SINGLE	0 <=10000	<10	CFU/g	A
Total Aerobic Plate Count	SINGLE	0 <=10000	30	CFU/g	A
Total Aerobic Plate Count	SINGLE	0 <=10000	10	CFU/g	A
Total Aerobic Plate Count	SINGLE	0 <=10000	<10	CFU/g	A
Total Aerobic Plate Count	SINGLE	0 <=10000	<10	CFU/g	A
Sulphite Reducing Clostridia	COMPOSITE	0 <=100	<10	CFU/g	A
Staphylococcus aureus per gram	SINGLE	0 Absent	Absent		A
Staphylococcus aureus per gram	SINGLE	0 Absent	Absent		A
Staphylococcus aureus per gram	SINGLE	0 Absent	Absent		A
Staphylococcus aureus per gram	SINGLE	0 Absent	Absent		A
Staphylococcus aureus per gram	SINGLE	0 Absent	Absent		A
Staph. Aureus- FC- Israel	SINGLE	0 Pass	Pass		A
Bacillus cereus- Final Conclusion- NLD	SINGLE	0 Pass	Pass		A
Bacillus cereus- Final Conclusion- PER	SINGLE	0 Pass	Pass		A
Bacillus cereus- Final Conclusion- THA	SINGLE	0 Pass	Pass		A
Bacillus cereus	SINGLE	0 <=1000	<5	CFU/g	A
Bacillus cereus	SINGLE	0 <=1000	5	CFU/g	A
Bacillus cereus	SINGLE	0 <=1000	<5	CFU/g	A
Bacillus cereus	SINGLE	0 <=1000	<5	CFU/g	A
MPN Coliform	SINGLE	0 <=1000	<5	CFU/g	A
Cronobacter spp per 600 g	COMPOSITE	0 <=10	<3	MPN/g	A
Enterobacteriaceae	COMPOSITE	0 Absent	Absent		A
Mold Count	COMPOSITE	0 <0.0110	<0.0041	MPN/g	A
Salmonella per 100 g	COMPOSITE	0 <=100	<10	CFU/g	A
Sediment	COMPOSITE	0 Absent	Absent		A
Scorched Particles	COMPOSITE	0 <=0.3	0.0	mg/100g	A
	COMPOSITE	0 <=7.5	0.0	mg/100g	A

This batch was packaged from Enfamil Human Milk Fortifier drummed powder, 1120145A2, batch 0604391. All analytical testing was completed on blended powder. The COA for the blended powder is attached.

Reviewed by:   
Gary Egli  
MJN SOP Administrator



## Certificate of Analysis

CERT-1-SEP-2021-69004

Created: 23-JUN-2021

Material Description	ENFAMIL HUMAN MILK FORTIFIER PWD
SAP Material Number	1120145A2
Formulation	PL00000001
Inventory Batch	0604391
Disposition	Accepted
Disposition Version	1
Manufacture Date	22-JUN-2021
Expiry Date	19-DEC-2021

Test Name	Sample Type	Blend - Variable Specification No.	Results	UoM	Result Code
Ash	COMPOSITE	0 <=15.3	12.5	g/100g	A
Trans Fatty Acids	COMPOSITE	0 0.0 - 0.3	0.1	g/100g	A
C18:3 Linolenic Acid	COMPOSITE	0 13.6 - 28.0	21.3	mg/2.84g	A
Carbohydrate	COMPOSITE	0 0.00 - 14.10	7.41	g/100g	A
Percent Ash	COMPOSITE	0 <=15.3	12.549		A
Percent Fat	COMPOSITE	0 31.0 - 42.3	37.137		A
Percent Moisture	COMPOSITE	0 <=3.22	2.206		A
Percent Protein	COMPOSITE	0 34.9 - 46.5	40.695		A
Total Calories	COMPOSITE	0 12.6 - 15.4	15.0	kcal/2.84g	A
Fat	BLEND_EACH	1 31.0 - 42.3	37.1	g/100g	A
Fat	COMPOSITE	0 31.0 - 42.3	36.4	g/100g	A
Fat Average across all blends	SUMMARY	0 31.0 - 42.3	37.1	g/100g	A
Fat Maximum across all blends	SUMMARY	0 31.0 - 42.3	37.1	g/100g	A
Fat Minimum across all blends	SUMMARY	0 31.0 - 42.3	37.1	g/100g	A
Loss on Drying	COMPOSITE	0 <=3.22	2.21	g/100g	A
Protein	BLEND_EACH	1 34.9 - 46.5	40.7	g/100g	A
Protein Average across all blends	SUMMARY	0 34.9 - 46.5	40.7	g/100g	A
Protein Maximum across all blends	SUMMARY	0 34.9 - 46.5	40.7	g/100g	A
Protein Minimum across all blends	SUMMARY	0 34.9 - 46.5	40.7	g/100g	A
Saturated Fatty Acids	COMPOSITE	0 0.0 - 27.6	23.3	g/100g	A
Total Simple Sugars	COMPOSITE	0 0.0 - 0.5	0.1	g/100g	A
C18:2 Linoleic Acid	COMPOSITE	0 112 - 340	164	mg/2.84g	A
Biotin	COMPOSITE	0 2.43 - 8.10	3.80	mcg/2.84g	A
Folic Acid	COMPOSITE	0 22.5 - 75.0	36.5	mcg/2.84g	A
Niacin	COMPOSITE	0 2700 - 9000	4152	mcg/2.84g	A
Pantothenic Acid	COMPOSITE	0 657 - 2200	1070	mcg/2.84g	A
Vitamin A	COMPOSITE	0 855 - 1800	1311	IU/2.84g	A
Thiamine HCl	COMPOSITE	0 135 - 450	166	mcg/2.84g	A
Vitamin B12	COMPOSITE	0 0.162 - 0.540	0.277	mcg/2.84g	A
Riboflavin	COMPOSITE	0 198 - 630	269	mcg/2.84g	A
Vitamin B6	COMPOSITE	0 104 - 340	116	mcg/2.84g	A
Vitamin C	BLEND_EACH	1 10.8 - 29.0	18.2	mg/2.84g	A
Vitamin C Average across all blends	SUMMARY	0 10.8 - 29.0	18.2	mg/2.84g	A
Vitamin C Maximum across all blends	SUMMARY	0 10.8 - 29.0	18.2	mg/2.84g	A
Vitamin C Minimum across all blends	SUMMARY	0 10.8 - 29.0	18.2	mg/2.84g	A
Vitamin D3	COMPOSITE	0 135 - 350	200	IU/2.84g	A
Vitamin E	COMPOSITE	0 4.14 - 13.80	6.57	IU/2.84g	A
Vitamin K	COMPOSITE	0 3.96 - 13.20	6.98	mcg/2.84g	A
Zinc	COMPOSITE	0 0.65 - 1.50	1.07	mg/2.84g	A
Manganese	COMPOSITE	0 8 - 75	15	mcg/2.84g	A
Phosphorus Maximum across all blends	SUMMARY	0 45 - 107	52	mg/2.84g	A
Phosphorus Average across all blends	SUMMARY	0 45 - 107	52	mg/2.84g	A
Phosphorus	BLEND_EACH	1 45 - 107	52	mg/2.84g	A
Sodium Minimum across all blends	SUMMARY	0 12.8 - 19.2	15.2	mg/2.84g	A
Sodium Maximum across all blends	SUMMARY	0 12.8 - 19.2	15.2	mg/2.84g	A
Sodium Average across all blends	SUMMARY	0 12.8 - 19.2	15.2	mg/2.84g	A
Phosphorus Minimum across all blends	SUMMARY	0 45 - 107	52	mg/2.84g	A
Magnesium Minimum across all blends	SUMMARY	0 1.0 - 9.2	1.3	mg/2.84g	A
Magnesium Maximum across all blends	SUMMARY	0 1.0 - 9.2	1.3	mg/2.84g	A
Magnesium Average across all blends	SUMMARY	0 1.0 - 9.2	1.3	mg/2.84g	A
Magnesium	BLEND_EACH	1 1.0 - 9.2	1.3	mg/2.84g	A
Potassium Minimum across all blends	SUMMARY	0 26.1 - 67.0	39.7	mg/2.84g	A
Potassium Maximum across all blends	SUMMARY	0 26.1 - 67.0	39.7	mg/2.84g	A
Potassium Average across all blends	SUMMARY	0 26.1 - 67.0	39.7	mg/2.84g	A
Potassium	BLEND_EACH	1 26.1 - 67.0	39.7	mg/2.84g	A
Iron Minimum across all blends	SUMMARY	0 1.3 - 2.2	1.4	mg/2.84g	A
Iron Maximum across all blends	SUMMARY	0 1.3 - 2.2	1.4	mg/2.84g	A
Calcium	BLEND_EACH	1 81 - 190	93	mg/2.84g	A
Calcium Average across all blends	SUMMARY	0 81 - 190	93	mg/2.84g	A
Calcium Maximum across all blends	SUMMARY	0 81 - 190	93	mg/2.84g	A

Calcium Minimum across all blends	SUMMARY	0	81 - 190	93	mg/2.84g	A
Sodium	BLEND_EACH	1	12.8 - 19.2	15.2	mg/2.84g	A
Chloride	COMPOSITE	0	11.7 - 32.0	14.5	mg/2.84g	A
Copper	BLEND_EACH	1	39.6 - 186.0	66.8	mcg/2.84g	A
Copper Average across all blends	SUMMARY	0	39.6 - 186.0	66.8	mcg/2.84g	A
Copper Maximum across all blends	SUMMARY	0	39.6 - 186.0	66.8	mcg/2.84g	A
Copper Minimum across all blends	SUMMARY	0	39.6 - 186.0	66.8	mcg/2.84g	A
Iron	BLEND_EACH	1	1.3 - 2.2	1.4	mg/2.84g	A
Iron Average across all blends	SUMMARY	0	1.3 - 2.2	1.4	mg/2.84g	A
Total Aerobic Plate Count	SINGLE	0	<=5000	<10	CFU/g	A
Total Aerobic Plate Count	SINGLE	0	<=5000	20	CFU/g	A
Total Aerobic Plate Count	SINGLE	0	<=5000	20	CFU/g	A
Total Aerobic Plate Count	SINGLE	0	<=5000	10	CFU/g	A
Salmonella per 1500 g	SINGLE	0	<=5000	<10	CFU/g	A
Bacillus cereus	COMPOSITE	0	Absent	Absent		A
Bacillus cereus	SINGLE	0	<=500	<10	CFU/g	A
Bacillus cereus	SINGLE	0	<=500	<10	CFU/g	A
Bacillus cereus	SINGLE	0	<=500	<10	CFU/g	A
Bacillus cereus	SINGLE	0	<=500	<10	CFU/g	A
Enterobacteriaceae	SINGLE	0	<=500	10	CFU/g	A
Cronobacter spp per 600 g	COMPOSITE	0	<0.0110	<0.0041	MPN/g	A
Sediment	COMPOSITE	0	Absent	Absent		A
Scorched Particles	COMPOSITE	0	<=0.3	0.0	mg/100g	A
Odor	COMPOSITE	0	<=7.5	0.0	mg/100g	A
Color	COMPOSITE	0	1 - 3	2		A
Appearance	COMPOSITE	0	1 - 4	2		A
Lead	COMPOSITE	0	1 - 3	2		A
Aflatoxin_Total	COMPOSITE	0	<=1000.0	29.0	ppb	A
Arsenic	COMPOSITE	0	<=20.00	<0.40	ppb	A
Mercury	COMPOSITE	0	<=2.0	0.0	ppm	A
Melamine	COMPOSITE	0	<=0.260	<0.005	ppm	A
Calcium to Phosphorus Ratio	COMPOSITE	0	<=2.5	<0.5	ppm	A
	COMPOSITE	0	1.10 - 2.00	1.73	mg/mg	A

This batch was packaged as Enfamil Human Milk Fortifier, 1118909, batch 0609887.

Reviewed by:

Gary Egli  
MJN SOP Administrator

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