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CERTIFICATE OF ANALYSIS

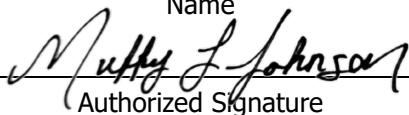
Product Name: Proferrin® ES 90 Count Bottles	Lot Number: N23070377
Type: Dietary Supplement	Manufacturing Date: September 2023
Country of Origin: United States	Shelf Life Date: September 2026

<u>Identity</u>	<u>Specification</u>	<u>Results</u>	<u>Method</u>
Tablet Appearance	Black core, green coated 0.346" X 0.747" oval shaped tablet, plain on both sides	Conforms	Visual
Identity	FT-IR spectra conforms to reference material directly or by library match	Pass	FT-IR
<u>Label Claim</u>	<u>Specification</u>	<u>Results</u>	<u>Method</u>
Assay – Iron	Average of 10 tablets is 100% to 125% of 10.5 mg label claim	Av. 11.04 mg/tablet, 104% label claim	Inductively Coupled Plasma Spectrometry
Quantity and Content Uniformity	10 of 10 tablets are 100% to 125% of label claim, RSD ≤ 6.0 ≤ 1 tablet of 30 outside 100% to 125% range, RSD ≤ 7.8	Pass	Inductively Coupled Plasma Spectrometry
<u>Physical Properties</u>	<u>Specification</u>	<u>Results</u>	<u>Method</u>
Friability – Uncoated Tablets	1.0% maximum with no caps or breaks	0.4%	SOP 350-75-00003
Tablet Breaking Force (Hardness) Uncoated Tablets	15-22 kp	20.50 kp	SOP 350-75-00009
Average Tablet Weight	As Reported	1001 mg	SOP 350-75-00003
Tablet Weight Variation	≤ 2 tablets of 20 may differ from the avg. weight by ± 5% 0 tablets of 20 may differ from avg. weight by ± 10%	Pass	USP<2091>
Disintegration – Uncoated Tablets	Not more than 30 minutes	Pass	USP<2040>
<u>Chemical Analysis</u>	<u>Specification</u>	<u>Results</u>	<u>Method</u>
Arsenic (As)	< 10.0 µg/day (<3.24 ppm)	<0.010 ppm	ICP/MS
Cadmium (Cd)	< 4.1 µg/day (<1.33 ppm)	<0.005 ppm	ICP/MS
Lead (Pb)	< 0.5 µg/day (<0.16 ppm)	0.0667 ppm	ICP/MS
Total Mercury (Hg)	< 0.3 µg/day (<0.1 ppm)	<0.005 ppm	ICP/MS
<u>Microbiology</u>	<u>Specification</u>	<u>Results</u>	<u>Method</u>
Total Aerobic Plate Count	NMT 1,000 CFU/g	< 1,000 CFU/g	030-85-00042
Yeast and Mold	NMT 100 CFU/g	< 100 CFU/g	030-85-00042
<i>E. Coli</i>	Absent	Absent	030-85-00042
<i>Salmonella Typhimurium</i>	Absent	Absent	030-85-00042
<i>Staphylococcus aureus</i>	Absent	Absent	030-85-00042
<i>Listeria</i>	Negative (org/25 g)	Negative (org/25 g)	RapidChek/AOAC RI 020401
<i>Streptococcus</i>	Not Detected (CFU/g)	Not Detected (ND) CFU/g	MEF Chapter 10
<i>Enterobacteriaceae</i>	Not Detected (CFU/g)	Not Detected (ND) CFU/g	030-85-00042
<i>Bacillus</i>	Not Detected (CFU/g)	Not Detected (ND) CFU/g	MEF Chapter 14

Batch processing, packaging and quality control records have been reviewed to confirm that this batch has been manufactured in accordance with all applicable Colorado Biolabs, Inc. specifications and in accordance with GMP for dietary supplements per US FDA Title 21 CFR 111

Muffy Johnson

Name


 Authorized Signature

Quality Systems Lead

Title

12-Oct-23

Date