

Certificate Of Analysis

Customer:

PO #:

16-6470 Ln (1)

Customer Part #:

100013 Rev 5 4-8-2014

Ship Date:

5/31/16

Shipment #:

0000007330

Description:	<u>Lot #:</u>
Green Tea Extract 45% EGCG	887151216-03

Commence and the second	<u>Standard</u>		Result *	
Physical Properties				
Appearance	Light yellow brown free	e flowing	Complies	
	powder			
Identification	Positive		Positive	
Extraction Solvent	Water		Complies	
Extract Ratio	25:1		Complies	
Carrier Used	None		None	
Plant Part	Leaf		Leaf	
Latin Name	Camellia Sinensis		Camellia Sinensis	
Bulk Density Loose (gm/cc)	>= 0.3		0.5	
Bulk Density Tap (gm/cc)	>= 0.6		0.7	
Particle size thru # 80 (%)	= 100		100	
Analytical				
Assay (Polyphenols, % Dry Basis)	>= 98.0		100.3	
Assay (Catechins, % Dry	>= 75.0		84.4	
Basis)		50.0	45.0	
Assay (EGCG, % Dry Basis)	>= 45.0 <=	50.0	45.3	
Assay (Caffeine, % Dry Basis)		3.0	2.2	
Loss on drying (%)	<=	5.0	3.3	
ROI (%)	<=	2.0	0.3	
Heavy Metals (ppm)	<=	10	<10	
Lead (ppm)	<=	0.5	<0.5	
Arsenic (ppm)	<=	1	<1	
Cadmium (ppm)	<=	0.3	<0.3	
Mercury (ppm)	<=	0.3	<0.3	
Residual Solvents	Conforms to USP <467>		Conforms	
Pesticides Residue	Conforms to USP <561>		Conforms	
<u>Microbiological</u>				
APC (CFU/gm)	<=	3000	<10	
Yeast/mold (CFU/gm)	<=	300	<10	
E. coli (CFU/gm)	Negative Negative		Negative	
Salmonella (25 gm)	Negative		Negative	
Coliforms (CFU/gm)	<=	100	Complies***	
Staphylococcus	Negative		Complies***	
Storage Conditions				
Manufacture date			Dec 16, 2015	
Expiration date			Dec 16, 2017	
Storage			Cool dry place sealed in light resistant	
Manufactured by			container Plant # 887	
Country of origin			China	
country of origin			Page 1 of 2	



Certificate Of Analysis

Rev 7 2/25/2015

Approved By:

Warren K. Majerus VP Quality Assurance Date: 5/26/2016

* Test results based on information supplied by the manufacturer, unless otherwise noted.

** Based on third party testing lab results.

*** Based on results from Pharmore's sampling protocol.

The information contained in this certificate of analysis is believed to be accurate and is offered in good faith. Pharmore Ingredients, however, cannot assume any guarantee against natural product variations, patent infringement, liabilities or risk involved from the use of this product. Customers' assume all risk and liability with the use of this product.

Certificate of Analysis

Report No: 2015121603

Product Name	Green Tea Extra	ot	Batch No.	151216-03
Latin Name	Camellia Sinensi	S	Material No.	C-001
Specification	PG-TP98C		Rep. Sample	800.0 kg
Extract Solvent	Ethanol and Wate	er.	Botanical part used	Leaf
Manufacture Date	Dec.16, 2015		Sample Date	Dec.16, 2015
Expiration Date	Dec.15, 2017	0 0 100 0 0 00000	Report Date	Dec.21, 2015
Test Basis	Green Tea Extrac	t Standard	Carrier	None
Test Items	Specification		Methods	Test Result
Appearance	Light yellow brown powder	Visual		Light yellow brown powder
dentification	Positive	HPLC		Positive
Inspection				
Total polyphenols	≥98.0%	UV		100.3%
Catechins	≥75.0%	HPLC		84.4%
EGCG	45.0-50.0%	HPLC		45.3%
Caffeine	≤3.0%	HPLC		2.2%
Loss on drying	≤5.0%	CP2010	Edition I Appendix IX H	3.3%
ROI	≤2.0%	CP2010	Edition I Appendix IX K	0.3%
Particle size	≥95%pass 80 mesh	CP2010	Edition I Appendix XI B	100% pass 80 mesh
Bulk density	≥0.30g/ml	Weight-	volume method	0.46g/ml
Tap density	≥0.60g/ml	Weight-	volume method	0.71g/ml
Heavy metals	≤10ppm	CP2010	Edition I Appendix IX E	<10ppm
Lead	≤0.5ppm	CP2010	Edition I Appendix IX B	<0.5ppm
Arsenic	≤ 1.0 ppm	CP2010	Edition I Appendix IX B	<1.0ppm
Mercury	≤0.3ppm	CP2010	Edition I Appendix IX B	<0.3ppm
Cadmium	≤0.3ppm	CP2010	Edition I Appendix IX B	<0.3ppm
Residual Solvents	Meet USP standards	CP2010	Edition II Appendix VIII I	P Conforms
Residual Pesticides	Meet USP Standards	CP2010	Edition I Appendix IX Q	Conforms
Microbiology				
Total Plate Count	\leq 3000cfu/g	CP2010	Edition I Appendix XIII (<10cfu/g
Yeasts & Molds	≤300cfu/g	CP2010	Edition I Appendix XIII (<10cfu/g
Coliforms	≤100cfu/g	CP2010	Edition I Appendix XIII (<10cfu/g
E. Coli	egative	CP2010	Edition I Appendix XIII (Negative Negative
Salmondia	eplegative	CP2010	Edition I Appendix XIII (Negative
S. Aureus 2 4 M	n Negative	CP2010	Edition I Appendix XIII C	Negative

QC manager:

cletos

Approver: Varyan

Analyst:

Xiarre Min