

CERTIFICATE OF ANALYSIS FINISHED PRODUCT

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Issued 10/03/16

Product Code: C-SUMMWK-001 **Formula Code:** C10142 **Product:** Memory Revitalizer/180 ct
Batch Lot: 16I019 **Lot Number:** 129I16
Manufacture Date: 09/2016

Physical Characteristics:

Test	Specification	Method	Results
Capsule Size	"00E"/ 25.30 ± 0.30 mm	Visual	"00E"/ 25.30 ± 0.30 mm
Appearance	Clear capsule containing light brown powder	Visual	Clear capsule containing light brown powder
Weight Average	989.593 mg ± 10%	USP <2091>	973.2mg
Disintegration (min.)	NMT 15 minutes	USP <2040>	3 minutes
Weight Variation	Meet USP Requirements	USP <2091>	Pass
Notebook Reference: LN-176; page-58			

Analytical Specifications:

Test	Specification	Method	Label Claim	Results (%)	References	Date
Vitamin A (67% as natural beta-carotene and 33% as retinyl palmitate)	⁽¹⁾ See note	Input	13,500 IU	120	Batch Record	10/03/16
Vitamin C (ascorbic acid)	⁽¹⁾ See note	Input	300 mg	103	Batch Record	10/03/16
Vitamin E (as d-alpha tocopheryl succinate)	⁽¹⁾ See note	Input	240 IU	103	Batch Record	10/03/16
Thiamin (as thiamine HCl)	⁽¹⁾ See note	Input	24 mg	105	Batch Record	10/03/16
Riboflavin (as riboflavin 5'-phosphate sodium)	⁽¹⁾ See note	Input	6 mg	120	Batch Record	10/03/16
Niacin (as niacinamide)	⁽¹⁾ See note	Input	24 mg	103	Batch Record	10/03/16
Vitamin B6 (as pyridoxine HCl and pyridoxal 5'-phosphate)	⁽¹⁾ See note	Input	21.6 mg	115	Batch Record	10/03/16
Folate (as folic acid)	⁽¹⁾ See note	Input	720 mcg	120	Batch Record	10/03/16
Vitamin B12 (as methylcobalamin)	⁽¹⁾ See note	Input	720 mcg	102	Batch Record	10/03/16
Pantothenic Acid (as d-calcium pantothenate)	⁽¹⁾ See note	Input	60 mg	115	Batch Record	10/03/16
Magnesium (as magnesium citrate)	⁽¹⁾ See note	Input	48 mg	100	Batch Record	10/03/16
Zinc (as zinc citrate dihydrate)	⁽¹⁾ See note	Input	18 mg	100	Batch Record	10/03/16
Selenium (as L-selenomethionine)	⁽¹⁾ See note	Input	60 mcg	100	Batch Record	10/03/16
Copper (as copper gluconate)	⁽¹⁾ See note	Input	0.45 mg	100	Batch Record	10/03/16
Manganese (as TRACCS® manganese bisglycinate chelate)	⁽¹⁾ See note	Input	3 mg	101	Batch Record	10/03/16

⁽¹⁾ Confirmed by input through process controls and raw material identification.

Test	Specification	Method	Label Claim	Results (%)	References	Date
Proprietary Blend: Phosphatidyl choline, Grape Seed Extract (<i>Vitis vinifera</i>)(seeds), (95% proanthocyanidins), Mixed Tocopherols, L-Lysine (as lysine monohydrate HCl), L-Methionine, Setria® L-Glutathione, Gotu Kola Extract (<i>Centella asiatica</i>)(whole herb), Alpha-Lipoic Acid, Lemon Bioflavonoid Complex (<i>Citrus x limon</i>)(fruit peel)(25% bioflavonoids), Siberian Ginseng Extract (<i>Eleutherococcus senticosus</i>)(root)(0.8% eleutherosides), Ginkgo Extract (<i>Ginkgo biloba</i>)(leaves)(24% flavone glycosides and 6% terpene lactones), Taurine, Asian Ginseng (<i>Panax ginseng</i>)(aerial parts)(80% ginsenosides), DMAE (as DMAE Bitartrate), Coenzyme Q10 (as ubiquinone), Phosphatidylserine, Papain, Boron (as boron citrate)	(1)See note	Input	2.141g	100	Batch Record	10/03/16

(1) Confirmed by input through process controls and raw material identification.

Microbial Specifications:

Test	Specification	Method	Date	Results	References
Total Plate Count	NMT 50,000 CFU/g	USP <2021>/QC-017	10/03/16	<50,000 CFU/g	Batch Record
Yeast & Mold	NMT 1,000 CFU/g	USP <2021>/QC-017	10/03/16	<1,000 CFU/g	Batch Record
Bile- Tolerant Gram- Negative Bacteria	NMT 1,000 CFU/g	USP <2022>/QC-017	10/03/16	<1,000 CFU/g	Batch Record
E.coli	Negative/10g	USP <2022>/QC-017	10/03/16	Negative/10g	Batch Record
Salmonella	Negative/10g	USP <2022>/QC-017	10/03/16	Negative/10g	Batch Record
Staphylococcus aureus	Negative/10g	USP <2022>/QC-017	10/03/16	Negative/10g	Batch Record

Heavy Metal Specifications:

Test	Specification	Method	Date	Results (µg)	References
Arsenic (As)	<10 µg/6 Capsules	ICP / MS	09/22/16	0.56	LN 179 P.20-21
Cadmium (Cd)	<4.1 µg/6 Capsules	ICP / MS	09/22/16	0.04	LN 179 P.20-21
Lead (Pb)	<0.5µg/6 Capsules	ICP / MS	09/22/16	0.28	LN 179 P.20-21
Mercury (Hg)	<15 µg/6 Capsules	ICP / MS	09/22/16	<0.01	LN 179 P.20-21

PREPARED BY: 

DATE: 10/03/16

QA/QC APPROVED BY: 

DATE: 10/03/16