



# Product Guide

Effective February 2025

View the most current catalog electronically  
at [www.neuroscienceinc.com](http://www.neuroscienceinc.com)



Product availability subject to change without notice.



# Table of Contents

NeuroScience .....	3
NeuroScience Network Categories .....	4
Catecholamine Products .....	5
AttenTrex .....	5
Balance D .....	6
Daxitrol Essential .....	6
Focus DL .....	7
Catecholamine Product Overview .....	8
NeuroAdrenal Products .....	9
AdreCor .....	9
AdreCor with Licorice Root .....	10
AdreCor with SAME .....	10
Calm CP .....	11
Calm PRT .....	11
ExcitaPlus .....	12
NeuroAdrenal Product Overview .....	13
NeuroEnteric Products .....	15
Digest DTX .....	15
NeuroBiota .....	16
NeuroEnteric Product Overview .....	18
NeuroImmune Products .....	19
Avipaxin .....	19
Calm G .....	20
ImmuWell .....	20
Kavinace OS .....	21
NeuroImmune Product Overview .....	22
Serotonin/GABA Products .....	23
Alpha GABA .....	23
Alpha GABA PM .....	24
GABA Trex .....	24
Serene .....	25
SeroTrex .....	25
TravaCor .....	26
TravaGen .....	26
Serotonin/GABA Product Overview .....	27
Integrations Product .....	29
Methyl FMT .....	29
Pathway Biochemistry Guide .....	31
Quality Management .....	34
NeuroSelect Technology .....	35
Product Ordering and Shipping .....	37

## Alphabetical Product Listing

AdreCor .....	9
AdreCor with Licorice Root .....	10
AdreCor with SAME .....	10
Alpha GABA .....	23
Alpha GABA PM .....	24
AttenTrex .....	5
Avipaxin .....	19
Balance D .....	6
Calm CP .....	11
Calm G .....	20
Calm PRT .....	11
Daxitrol Essential .....	6
Digest DTX .....	15
ExcitaPlus .....	12
Focus DL .....	7
GABA Trex .....	26
ImmuWell .....	20
Kavinace OS .....	21
Methyl FMT .....	29
NeuroBiota .....	16
Serene .....	25
SeroTrex .....	25
TravaCor .....	26
TravaGen .....	26

## Innovative and integrative

### An approach that delivers results

As a professional-grade brand, our foremost goal is delivering premium supplements containing amino acids, botanicals, vitamins, and minerals that contain impactful amounts of ingredients in a practical daily serving. We never design products with specific price points in mind.

Understanding health is maintained between the nervous, endocrine, and immune systems—while also recognizing clinical symptoms are multifactorial—NeuroScience products are formulated and organized into the network impacted within our multi-system approach: Catecholamine, NeuroAdrenal, NeuroEnteric, NeuroImmune, and Serotonin/GABA.

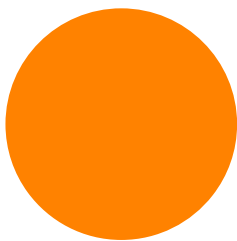
## Consistent products, consistent results

NeuroScience embraces the expectations of a rigorously regulated professional grade supplement brand. In addition to using FDA-inspected manufacturers that are cGMP (current good manufacturing practices) compliant, NeuroScience orders impartial third-party testing to verify label ingredient amounts are met, inspect for microbial contaminants, and test for heavy metal contamination. We believe our comprehensive Quality Management System ensures consistent products that deliver consistent results.



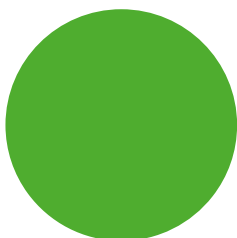
# NeuroScience Network Categories

---



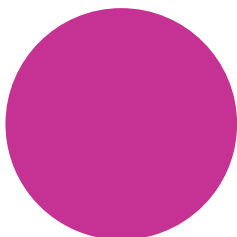
## Catecholamine

- Cognition/Focused Attention
- Energy
- Mood
- Weight Management



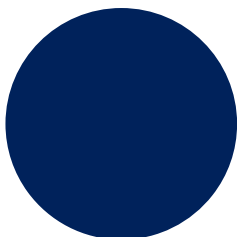
## NeuroAdrenal

- Adrenal
- Anxiousness/Stress
- Cognition/Focused Attention
- Energy
- Immune
- Mood
- Sleep
- Weight Management



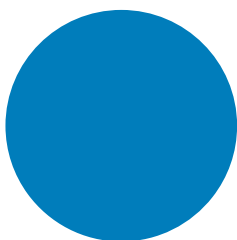
## NeuroEnteric

- Anxiousness/Stress
- Gut
- Immune
- Mood



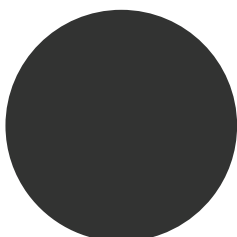
## NeuroImmune

- Anxiousness/Stress
- Cognition/Focused Attention
- Energy
- Immune
- Mood
- Sleep



## Serotonin/GABA

- Anxiousness/Stress
- Mood
- Sleep



## Integrations

- Integrate between bodily systems
- Complement targeted support
- Foundational formula

# Catecholamine

(PEA, Dopamine, Norepinephrine, Epinephrine)

A class of neurotransmitters responsible for many functions in the nervous and endocrine systems<sup>1</sup>

Products in this category may be recommended for:

- Cognition/Focused Attention
- Energy
- Mood
- Weight Management



## AttenTrex

Contains ingredients promoting the drive required for attention and feeling energized, in a chewable tablet delivery with flexible dosing for the entire family\*

Item	Size	Serving size	Servings/container
20060	60 Tablets	2 Tablets	30

### Key Ingredients:

- L-tyrosine
- Vitamin B6
- Vitamin C

### Supplement Facts

Serving Size: 2 Tablets  
Servings Per Container: 30

Amount Per Serving	% Daily Value	
<b>Calories</b>	3	
Total Carbohydrates	1 g	<1%*
Sorbitol	0.5 g	†
Vitamin C (as ascorbic acid)	25 mg	28%
Vitamin B6 (as pyridoxal 5'-phosphate)	2 mg	118%
L-tyrosine	500 mg	†

\* Percent Daily Values are based on a 2,000 calorie diet.

† Daily Value not established.

Not a significant source of added sugar.

Other ingredients: Natural flavors, ascorbyl palmitate, and malic acid.



Reference

1. Eisenhofer G, et al. Pharmacol Rev. 2004;56(3):331-49.

Best  
Seller



## Balance D

Contains ingredients important for the synthesis of dopamine, a catecholamine important for positive affect, mood, cognition, and craving control\*

Item	Size	Serving size	Servings/container
2067	60 Capsules	2 Capsules	30

### Key Ingredients:

- N-acetyl-L-cysteine
- N-acetyl-L-tyrosine
- *Mucuna cochinchinensis* seed extract (99% L-DOPA)
- Vitamins B and C



## Daxitrol Essential

Contains ingredients important for craving reduction, satiety, and breakdown of fat stores\*

Item	Size	Serving size	Servings/container
20021	120 Capsules	3 Capsules	40

### Key Ingredients:

- N-acetyl-L-cysteine
- L-phenylalanine
- Green tea (*Camellia sinensis*) leaf extract (65% EGCG)
- 5-HTP (from *Griffonia simplicifolia* seed extract)
- *Mucuna cochinchinensis* seed extract (99% L-DOPA)
- *Coleus forskohlii* root extract (38% forskolin)
- *Huperzia serrata* aerial parts (standardized to 1% huperzine A)

### Supplement Facts

Serving Size: 2 Capsules  
Servings Per Container: 30

Amount Per Serving		% Daily Value
Vitamin C (as ascorbic acid)	200 mg	222%
Vitamin B6 (as pyridoxal 5'-phosphate)	0.5 mg	29%
Folate (as L-5-methyltetrahydrofolate, calcium salt†)	240 mcg DFE	60%
Selenium (as L-selenomethionine)	70 mcg	127%
<b>Proprietary Blend</b>	1.15 g	†
N-acetyl-L-cysteine, N-acetyl-L-tyrosine, and <i>Mucuna cochinchinensis</i> extract (seed) (99% L-DOPA).		

† Daily Value not established.

Other ingredients: Vegetable capsule (hypromellose, water), microcrystalline cellulose, magnesium stearate (vegetable source), silica, and dicalcium phosphate.



### Supplement Facts

Serving Size: 3 Capsules  
Servings Per Container: 40

Amount Per Serving		% Daily Value
Chromium (as chromium nicotinate glycinate chelate)	200 mcg	571%
<b>Proprietary Blend</b>	1.77 g	†
N-acetyl-L-cysteine, L-phenylalanine, Green tea extract ( <i>Camellia sinensis</i> ) (leaf) (65% epigallocatechin gallate), 5-hydroxytryptophan (from <i>Griffonia simplicifolia</i> seed extract), <i>Mucuna cochinchinensis</i> extract (seed) (99% L-DOPA), <i>Coleus forskohlii</i> extract (root) (38% forskolin), and <i>Huperzia serrata</i> extract (aerial parts) (1% huperzine A).		

† Daily Value not established.

Other ingredients: Vegetable capsule (hypromellose, water), microcrystalline cellulose, and magnesium stearate (vegetable source).

Phenylketonurics: Contains phenylalanine.



\*These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.



## Focus DL

Contains the precursor to PEA, a neuromodulator important for focus, cognition, and catecholamine activity\*

Item	Size	Serving size	Servings/container
20003	60 Capsules	2 Capsules	30

### Key Ingredients:

- DL-phenylalanine

### Supplement Facts

Serving Size: 2 Capsules  
Servings Per Container: 30

Amount Per Serving	% Daily Value
DL-phenylalanine	1 g †

† Daily Value not established.

Other ingredients: Microcrystalline cellulose, vegetable capsule (hypromellose, water), and magnesium stearate (vegetable source).

**Phenylketonurics: Contains phenylalanine.**



## Catecholamine Ingredient Index

**5-HTP** (5-hydroxytryptophan): Crosses the blood-brain barrier and is the precursor to serotonin<sup>1\*</sup>

**Chromium:** A mineral nutrient that serves as a cofactor in the action of insulin<sup>6\*</sup>

**Folate** (as 5-MTHF): Necessary vitamin in the development and regulation of the nervous system, including the synthesis of neurotransmitters<sup>7-9\*</sup>

**Forskolin:** Botanical that stimulates production of cyclic adenosine monophosphate (cAMP), important for the activation of hormone-sensitive lipase, an enzyme that breaks down fat stores<sup>10-11\*</sup>

**Green tea leaf extract:** Epigallocatechin gallate (EGCG) is a polyphenol in green tea that is thought to increase energy expenditure and fat oxidation<sup>12\*</sup>

**Huperzine A:** Slows the breakdown of the neurotransmitter acetylcholine by inhibiting the enzyme acetylcholinesterase<sup>13\*</sup>

**L-methionine:** Essential amino acid precursor to S-adenosyl-L-methionine (SAME), an important cofactor in the synthesis of the catecholamines<sup>14,15\*</sup>

**L-phenylalanine:** Precursor to phenylethylamine (PEA) and the catecholamines dopamine, norepinephrine, and epinephrine<sup>16</sup>

**L-tyrosine:** Precursor to the catecholamines including dopamine, norepinephrine, and epinephrine<sup>16</sup>

**Manganese:** Essential metal that is important for energy metabolism and immune activity<sup>17\*</sup>

**Mucuna cochinchinensis** (99% L-DOPA): L-DOPA crosses the blood-brain barrier and is the direct precursor to the neurotransmitter dopamine<sup>18,19</sup>

**N-acetyl-L-cysteine:** Precursor to L-cysteine, which is required for the synthesis of glutathione, an endogenous antioxidant<sup>20,21</sup>

**Selenium:** Micronutrient that helps to comprise selenoproteins; these proteins are crucial for brain function and for enzymes such as glutathione peroxidase<sup>22\*</sup>

**Vitamin B6:** This vitamin is an essential cofactor in the synthesis of neurotransmitters<sup>23\*</sup>

**Vitamin C:** This vitamin acts as an essential cofactor in the synthesis of neurotransmitters<sup>24\*</sup>

**Zinc:** Essential micronutrient that is important for synaptic plasticity and is commonly found within neurons in the cerebral cortex<sup>27\*</sup>



## Catecholamine Product Overview

	AttenTrex	Balance D	Daxitrol Essential	Focus DL
<b>Clinical</b>				
Cognition/Focused Attention	•	•		•
Energy		•		
Mood		•		
Weight Management		•	•	
<b>Biomarker**</b>				
Dopamine	↑	↑↑↑	↑↑↑	
Epinephrine	↑	↑	↑	
Norepinephrine	↑	↑↑	↑	
PEA			↑↑	↑↑↑
<b>Ingredients</b>				
5-HTP			•	
<i>Bacopa monnieri</i>				
Chromium			•	
DL-phenylalanine				•
Folate		•		
Forskolin			•	
Green tea leaf extract			•	
Huperzine A			•	
L-methionine				
L-phenylalanine			•	
L-tyrosine	•			
Manganese				
<i>Mucuna cochinchinensis</i> (99% L-DOPA)		•	•	
N-acetyl-L-cysteine		•	•	
N-acetyl-L-tyrosine		•		
Selenium		•		
Vitamin B6	•	•		
Vitamin C	•	•		
Zinc				
<b>Description</b>				
Dosage Form	Tablets	Capsules	Capsules	Capsules
Available Sizes	60 Tablets	60 Capsules	120 Capsules	60 Capsules
Serving Size	2 Tablets	2 Capsules	3 Capsules	2 Capsules
Suggested Use (Do not exceed suggested use)	1 tablet daily for ages 4-8, up to 4 times daily for >18 years	1-2 QD-BID	1-3 TID	1-2 QD-BID

\*\* The number and direction of the arrows reflect the precursor potential for metabolic end products and/or the mechanisms of action of select ingredient relationships as compared to other NeuroScience products. Please refer to the Product Quick Reference Guide for more information.

\*These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.

# NeuroAdrenal

In response to stress, the sympathetic nervous system (SNS) and hypothalamic-pituitary-adrenal (HPA) axis signal to the adrenals to release catecholamines (norepinephrine and epinephrine) and cortisol.<sup>1</sup> Prolonged stress is associated with dysregulation of the HPA axis, which can affect catecholamine and cortisol levels.<sup>2</sup>

## Products in this category may be recommended for:

- Adrenal
- Anxiousness/Stress
- Cognition/Focused Attention
- Energy
- Immune
- Mood
- Sleep
- Weight Management



## AdreCor

Best Seller

Contains non-glandular ingredients important for adrenal health and reducing stress-induced fatigue\*

Item	Size	Serving size	Servings/container
2096	90 Capsules	3 Capsules	30
2044	180 Capsules		60

## Key Ingredients:

- L-methionine
- L-tyrosine
- L-histidine
- *Rhodiola rosea* root extract (5% rosavins)
- Green tea leaf extract (*Camellia sinensis*) (65% EGCG)
- Vitamins B and C

## Supplement Facts

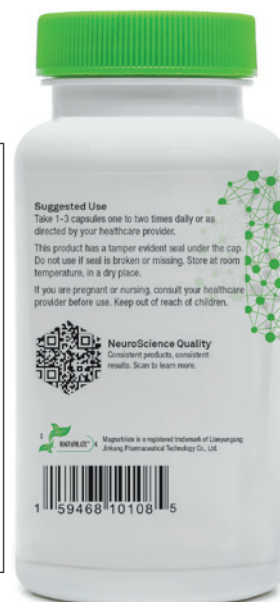
Serving Size: 3 Capsules  
Servings Per Container: 30

Amount Per Serving		% Daily Value
Vitamin C (as ascorbic acid)	300 mg	333%
Niacin (as niacinamide)	6 mg NE	38%
Vitamin B6 (as pyridoxal 5'-phosphate)	12 mg	706%
Folate (as L-5-methyltetrahydrofolate, calcium salt†)	230 mcg DFE	58%
Vitamin B12 (as methylcobalamin)	60 mcg	2500%
Pantothenic acid (as D-calcium pantothenate)	300 mg	6000%
Magnesium (as magnesium bisglycinate chelate)	14 mg	3%
Zinc (as zinc bisglycinate chelate)	3 mg	27%

**Proprietary Blend** 1.3 g †  
L-methionine, L-tyrosine, L-histidine, *Rhodiola rosea* extract (root) (5% rosavins), and Green tea extract (*Camellia sinensis*) (leaf) (65% epigallocatechin gallate).

† Daily Value not established.

Other ingredients: Vegetable capsule (hypromellose, water), organic rice concentrate, and citric acid.



## References

1. Lee D, et al. BMB Rep. 2015;48(4):209-16
2. Krizanov O, et al. Stress. 2016;19(4):419-28.



## AdreCor with Licorice Root

Increases cortisol levels and provides non-glandular ingredients important for adrenal health, energy, wakefulness, and stress management\*

Item	Size	Serving size	Servings/container
2097	90 Capsules	3 Capsules	30

### Key Ingredients:

- Glycyrrhizic acid (from Licorice root extract)
- L-histidine
- L-methionine
- L-tyrosine
- *Rhodiola rosea* root extract (5% rosavins)
- Green tea leaf extract (*Camellia sinensis*) (65% EGCG)
- Vitamins B and C



## AdreCor with SAME

Contains non-glandular ingredients important for adrenal health and mood\*

Item	Size	Serving size	Servings/container
2098	30 Capsules	1 Capsule	30

### Key Ingredients:

- Adomet® (SAME)
- L-tyrosine
- *Rhodiola rosea* root extract (5% rosavins)
- Green tea leaf extract (*Camellia sinensis*) (65% EGCG)
- Vitamins B and C

### Supplement Facts

Serving Size: 3 Capsules  
Servings Per Container: 30

Amount Per Serving		% Daily Value
Vitamin C (as ascorbic acid)	300 mg	333%
Niacin (as niacinamide)	6 mg NE	38%
Vitamin B6 (as pyridoxal 5'-phosphate)	12 mg	706%
Folate (as L-5-methyltetrahydrofolate, calcium salt†)	220 mcg DFE	55%
Vitamin B12 (as methylcobalamin)	60 mcg	2500%
Pantothenic acid (as D-calcium pantothenate)	300 mg	6000%
Magnesium (as magnesium glycinate)	14 mg	3%
Zinc (as zinc bisglycinate chelate)	3 mg	27%

Glycyrrhizic acid (from Licorice root extract)	120 mg	†
<b>Proprietary Blend</b>	587 mg	†
L-histidine, L-methionine, L-tyrosine, <i>Rhodiola rosea</i> extract (root) (5% rosavins), and Green tea extract ( <i>Camellia sinensis</i> ) (leaf) (65% epigallocatechin gallate).		

† Daily Value not established.

Other ingredients: Vegetable capsule (hypromellose, water), micro-crystalline cellulose, and magnesium stearate (vegetable source).



### Supplement Facts

Serving Size: 1 Capsule  
Servings Per Container: 30

Amount Per Serving		% Daily Value
Vitamin C (as ascorbic acid)	50 mg	56%
Niacin (as niacinamide)	2 mg NE	13%
Vitamin B6 (as pyridoxal 5'-phosphate)	4 mg	235%
Folate (as L-5-methyltetrahydrofolate, calcium salt†)	109 mcg DFE	27%
Vitamin B12 (as methylcobalamin)	20 mcg	833%
Pantothenic acid (as D-calcium pantothenate)	100 mg	2000%
Calcium (from calcium oxide, D-calcium pantothenate, calcium chloride and dicalcium phosphate)	25 mg	2%
Magnesium (as magnesium bisglycinate chelate)	4.7 mg	1%
Zinc (as zinc bisglycinate chelate)	1 mg	9%

S-adenosyl-L-methionine (as s-adenosyl-L-methionine disulfate p-toluensulfonate†)	200 mg	†
<b>Proprietary Blend</b>	96 mg	†
L-tyrosine, <i>Rhodiola rosea</i> extract (root) (5% rosavins), and Green tea extract ( <i>Camellia sinensis</i> ) (leaf) (65% epigallocatechin gallate).		

† Daily Value not established.

Other ingredients: Vegetable capsule (hypromellose, water), micro-crystalline cellulose, and magnesium stearate (vegetable source).



\*These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.



## Calm CP

Best  
Seller

Decreases cortisol levels and provides ingredients important for calm, sleep, and management of blood sugar\*

Item	Size	Serving size	Servings/container
2099	60 Capsules	2 Capsules	30

### Key Ingredients:

- *Lagerstroemia speciosa* (Banaba) leaf extract (18% corosolic acid\*\*)
- Phosphatidylserine
- Glycine
- Taurine

### Supplement Facts

Serving Size: 2 Capsules  
Servings Per Container: 30

Amount Per Serving	% Daily Value
<b>Proprietary Blend</b> 667 mg †	
Phosphatidylserine 50% <sup>†</sup> , L-glycine, L-tyrosine, and Banaba extract ( <i>Lagerstroemia speciosa</i> ) (leaf) (18% corosolic acid).	

† Daily Value not established.

Other ingredients: Organic rice concentrate, vegetable capsule (hypromellose, water), and silica.



## Calm PRT

Contains ingredients important for sleep, regulating the stress response, and reducing anxiousness\*

Item	Size	Serving size	Servings/container
20050	90 Capsules	4 Capsules	22

### Key Ingredients:

- *Rhodiola rosea* root extract (9%-15% rosavins)
- Phosphatidylserine
- Glycine
- Taurine

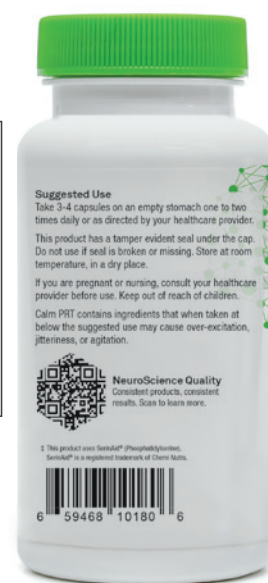
### Supplement Facts

Serving Size: 4 Capsules  
Servings Per Container: 22

Amount Per Serving	% Daily Value
<b>Proprietary Blend</b> 1.88 g †	
<i>Rhodiola rosea</i> extract (root) (10% rosavins, providing 112.5 mg of rosavins), Phosphatidylserine 50% <sup>†</sup> , L-glycine, and L-tyrosine.	

† Daily Value not established.

Other ingredients: Vegetable capsule (hypromellose, water), silica, magnesium stearate (vegetable source), and microcrystalline cellulose.





## ExcitaPlus

Contains non-glandular ingredients important for adrenal health and reducing stress-induced fatigue\*

Provides over three times the L-tyrosine and six times the Rhodiola per capsule compared to AdreCor

Item	Size	Serving size	Servings/container
20068	60 Capsules	2 Capsules	30
2069	120 Capsules		60

### Key Ingredients:

- L-tyrosine
- *Rhodiola rosea* root extract (5% rosavins)
- L-methionine
- *Mucuna cochinchinensis* seed extract (99% L-DOPA)
- Vitamins B and C

### Supplement Facts

Serving Size: 2 Capsules  
Servings Per Container: 30

Amount Per Serving		% Daily Value
Vitamin C (as ascorbic acid)	67 mg	74%
Niacin (as niacinamide)	20 mg NE	125%
Vitamin B6 (as pyridoxal 5'-phosphate)	17 mg	1000%
Folate (as L-5-methyl-tetrahydrofolate, calcium salt†)	240 mcg DFE	60%
Pantothenic acid (as D-calcium pantothenate)	40 mg	800%
Zinc (as zinc bisglycinate chelate)	6.7 mg	61%
Manganese (as manganese sulfate)	2.7 mg	117%
<b>Proprietary Blend</b>	1.1 g	†
L-tyrosine, <i>Rhodiola rosea</i> extract (root) (5% rosavins), L-methionine, and <i>Mucuna cochinchinensis</i> extract (seed) (99% L-DOPA).		

† Daily Value not established.

Other ingredients: Vegetable capsule (hypromellose, water), microcrystalline cellulose, and magnesium stearate (vegetable source).



## NeuroAdrenal Ingredient Index

**Banaba leaf:** Botanical that contains corosolic acid, a compound that selectively inhibits 11 $\beta$ -hydroxysteroid dehydrogenase 1 (11 $\beta$ -HSD1), an enzyme that catalyzes the conversion of cortisone into cortisol<sup>28,29\*</sup>

**Folate** (as 5-MTHF): Necessary vitamin in the development and regulation of the nervous system, including the synthesis of neurotransmitters<sup>7-9\*</sup>

**Glycine:** Major inhibitory neurotransmitter that crosses the blood-brain barrier and binds receptors that regulate temperature during sleep<sup>30,31\*</sup>

**Green tea leaf extract:** Epigallocatechin gallate (EGCG) is a polyphenol in green tea that provides antioxidant protection through its ability to scavenge free radicals and metal ions<sup>32,33\*</sup>

**L-histidine:** Precursor to histamine, a neurotransmitter in the central nervous system that has an important role in the release of pituitary hormones and wakefulness<sup>34\*</sup>

**Licorice root extract:** Glycyrrhetic acid (metabolite of glycyrrhizic acid) binds 11 $\beta$ -hydroxysteroid dehydrogenase 2 (11 $\beta$ -HSD2) to inhibit the breakdown of cortisol<sup>35,36\*</sup>

**L-methionine:** Essential amino acid precursor to S-adenosyl-L-methionine (SAME), an important cofactor in the synthesis of the catecholamines<sup>14,15\*</sup>

**L-tyrosine:** Precursor to the catecholamines including dopamine, norepinephrine, and epinephrine<sup>16</sup>

**Magnesium:** Mineral found in the body that is important for neurotransmitter release and energy metabolism<sup>37\*</sup>

**Manganese:** Essential metal that is important for energy metabolism and immune activity<sup>17\*</sup>

***Mucuna cochinchinensis* (99% L-DOPA):** L-DOPA crosses the blood-brain barrier and is the direct precursor to the neurotransmitter dopamine<sup>18,19</sup>

**Niacin (B3):** Vitamin in its active form is important for the synthesis of neurotransmitters<sup>38\*</sup>

**Pantothenic acid (B5):** Involved in the synthesis of neurotransmitters and is the precursor to coenzyme A (CoA), an essential coenzyme for energy production and hormone synthesis<sup>39\*</sup>

**Phosphatidylserine:** Component of cell membranes important for receptor-mediated interactions; phosphatidylserine is thought to interact with cell membranes in order to dampen hypothalamic signaling and regulate the stress response<sup>40,41\*</sup>

**Rhodiola:** Botanical that is considered an adaptogen because of its ability to increase the body's resistance to stressors<sup>42\*</sup>

**S-adenosyl-L-methionine (SAME):** SAME is the universal methyl donor in the body involved in the methylation of neurotransmitters<sup>14,15\*</sup>

**Taurine:** Neuroprotective amino acid that provides antioxidant protection and demonstrates GABA-A agonist activity<sup>43-45\*</sup>

**Vitamin B12:** This vitamin is essential in the development and function of the nervous system and the formation of neurotransmitters<sup>46\*</sup>

**Vitamin B6:** This vitamin is an essential cofactor in the synthesis of neurotransmitters<sup>23\*</sup>

**Vitamin C:** This vitamin acts as an essential cofactor in the synthesis of neurotransmitters<sup>24\*</sup>

**Zinc:** Essential micronutrient that is important for synaptic plasticity and is commonly found within neurons in the cerebral cortex<sup>27\*</sup>

References on page 38.

\*These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.

## NeuroAdrenal Product Overview

	AdreCor	AdreCor with Licorice Root	AdreCor with SAME	ExcitaPlus
<b>Clinical</b>				
Adrenal	•	•	•	•
Cognition/Focused Attention				•
Energy	•	•		•
Immune		•		
Mood			•	
<b>Biomarker**</b>				
Dopamine	↑	↑	↑	↑↑
Epinephrine	↑↑	↑	↑↑↑	↑
Norepinephrine	↑↑	↑	↑	↑↑↑
Cortisol	↑	↑↑↑	↑	↑
<b>Ingredients</b>				
Folate	•	•	•	•
Green tea leaf extract	•	•	•	
L-histidine	•	•		
Licorice root extract		•		
L-methionine	•	•		•
L-tyrosine	•	•	•	•
Magnesium	•	•	•	
Manganese				•
<i>Mucuna cochinchinensis</i> (99% L-DOPA)				•
Niacin	•	•	•	•
Pantothenic acid	•	•	•	•
Rhodiola (5% rosavins)	•	•	•	•
S-adenosyl-L-methionine (SAME)			•	
Vitamin B12	•	•	•	
Vitamin B6	•	•	•	•
Vitamin C	•	•	•	•
Zinc	•	•	•	•
<b>Description</b>				
Dosage Form	Capsules	Capsules	Capsules	Capsules
Available Sizes	90 and 180 Capsules	90 Capsules	30 Capsules	60 and 120 Capsules
Serving Size	3 Capsules	3 Capsules	1 Capsule	2 Capsules
Suggested Use (Do not exceed suggested use)	1-3 QD-BID	1-3 QD-BID	1 QD-BID	1-2 QD-BID

\*\* The number and direction of the arrows reflect the precursor potential for metabolic end products and/or the mechanisms of action of select ingredient relationships as compared to other NeuroScience products. Please refer to the Product Quick Reference Guide for more information.

## NeuroAdrenal Product Overview

	Calm CP	Calm PRT
<b>Clinical</b>		
Adrenal	•	•
Immune	•	
Sleep	•	•
Weight Management	•	
<b>Biomarker**</b>		
Epinephrine		↓
Glycine	↑	↑
Norepinephrine		↓
Taurine	↑	↑
Cortisol	↓↓	↓
<b>Ingredients</b>		
Banaba leaf extract	•	
Phosphatidylserine	•	•
Glycine	•	•
Taurine	•	•
Rhodiola (9%-15% rosavins)		•
<b>Description</b>		
Dosage Form	Capsules	Capsules
Available Sizes	60 Capsules	90 Capsules
Serving Size	2 Capsules	4 Capsules
Suggested Use (Do not exceed suggested use)	2 QD-BID	3-4 QD-BID

\*\* The number and direction of the arrows reflect the precursor potential for metabolic end products and/or the mechanisms of action of select ingredient relationships as compared to other NeuroScience products. Please refer to the Product Quick Reference Guide for more information.



# NeuroEnteric

The enteric nervous system contains 5x as many neurons as the spinal cord and helps relay messages from the brain to the gut.<sup>1-3</sup> Proper gut health promotes balanced immune function, healthy neurotransmitter production, and improved digestion.<sup>1</sup>

Products in this category may be recommended for:

- Anxiousness/Stress
- Gut
- Immune
- Mood



## Digest DTX

Formulated with digestive enzymes and botanicals to break the toxin-induced immune cycle through improved digestion, aided detoxification, and balanced immune function\*

Item	Size	Serving size	Servings/container
20046	90 Capsules	1 Capsule	90

### Key Ingredients:

- Enzyme blend (Amylase, Lactase, Lipase, Protease, Acid Protease DS)
- Cilantro leaf (*Coriandrum sativum*)
- Apple cider vinegar
- Turmeric (*Curcuma longa*, standardized to 30% curcuminoids)

Supplement Facts		
Serving Size: 1 Capsule		
Servings Per Container: 90		
Amount Per Serving	% Daily Value	
<b>Biocore® Optimum Complete</b>	110 mg	†
Protease (21,000 HUT), Amylase (3,500 DU), Protease (4,000 PC), Alpha-Galactosidase (150 GalU), Glucoamylase (9 AGU), Lactase (1,000 ALU), Protease (50 SAPU), Invertase (400 SU), Lipase (500 FIP), Acid Maltase (14 MaltU), and Peptidase (2AP).		
<b>Proprietary Blend</b>	280 mg	†
Cilantro ( <i>Coriandrum sativum</i> ) (leaf) powder, Apple cider vinegar ( <i>Malus pumila</i> ) (fruit) extract (10% Total acids), and Theracurmin® Turmeric ( <i>Curcuma longa</i> ) (rhizome) extract (30% curcuminoids).		
† Daily Value not established.		

Other ingredients: Vegetable capsule (hypromellose, water), microcrystalline cellulose, magnesium stearate (vegetable source), and silica.



### References

1. Saulnier, D. et al. Gut Microbes. 2013 Jan-Feb;4(1):17-27.
2. Rao, M. And Gershon, M. Nat Rev Gastroenterol Hepatol. 2016 Sep;13(9):517-528.
3. Bansal, T. Proc Natl Acad Sci U S A. 2010.

\*These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.





## NeuroBiota

Shelf-stable probiotic blend important for the gut-brain axis, improvement of mood, neurotransmitter synthesis, and balancing the immune response\*

Item	Size	Serving size	Servings/container
20049	30 Tablets	1 Capsule	30

### Key Ingredients:

- Probiotics

### Supplement Facts

Serving Size: 1 Capsule  
Servings Per Container: 30

Amount Per Serving	% Daily Value
Vitamin C (from ascorbic acid)	15 mg 17%

**Proprietary Blend** 20 billion CFU †  
*Lactobacillus paracasei* HA-196, *Lactobacillus rhamnosus* GG, *Lactobacillus helveticus* Rosell®-52, *Bifidobacterium animalis* ssp. *lactis* LAFTI® B94, *Lactobacillus brevis* HA-112, and *Bifidobacterium longum* Rosell®-175.

† Daily Value not established.

Other ingredients: Potato starch, vegetable capsule (hydro-mellose, water), and magnesium stearate (vegetable source).



\*These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.

## NeuroEnteric Ingredient Index

**Apple cider vinegar:** *In vitro* studies demonstrate apple cider vinegar balances the enteric microbiota and supports immune regulating properties through the downregulation of toxic protein expression and TNF- $\alpha$  and IL-6 expression<sup>77\*</sup>

**Cilantro leaf** (*Coriandrum sativum*): *Coriandrum sativum* is a peptide derived from cilantro leaf which promotes a balanced microbiota<sup>78\*</sup>

**Enzyme blend** (Amylase, Lactase, Lipase, Protease, Acid Protease DS): Blend of acid-stable, naturally-derived enzymes designed to optimize fundamental digestion\*

**Probiotics:** Living microorganisms that populate the gut to help support gut function, balance immune activity, and improve neurotransmitter synthesis<sup>79-81\*</sup>

**Turmeric** (*Curcuma longa*, 30% curcuminoids): Curcumin, a polyphenol in turmeric, contains notable immune regulating properties<sup>82\*</sup>

## NeuroEnteric Product Overview

	Digest DTX	NeuroBiota
<b>Clinical Indication</b>		
Anxiousness/Stress		•
Gut	•	•
Immune	•	•
Mood		•
<b>Biomarker**</b>		
GABA		↑
Cortisol		↓
<b>Ingredients</b>		
Apple cider vinegar	•	
Cilantro leaf	•	
Enzyme blend	•	
Probiotics		•
Turmeric	•	
<b>Description</b>		
Dosage Form	Capsules	Capsules
Available Sizes	90 Capsules	30 Capsules
Serving Size	1 Capsule	1 Capsule
Suggested Use (Do not exceed suggested use)	1 QD before consuming food	1 QD

\*\* The number and direction of the arrows reflect the precursor potential for metabolic end products and/or the mechanisms of action of select ingredient relationships as compared to other NeuroScience products. Please refer to the Product Quick Reference Guide for more information.

# NeuroImmune

The sympathetic and parasympathetic nervous systems work together with the immune system to regulate the immune response.<sup>1</sup> Oxidative stress is directly linked to immune activation and can damage proteins, lipids, and DNA.<sup>2</sup> Long term immune activation can lead to imbalances in these systems and can contribute to symptoms such as fatigue, low mood, and sleep difficulties.<sup>1,3-5</sup>

## Products in this category may be recommended for:

- Anxiousness/Stress
- Cognition/Focused Attention
- Energy
- Immune
- Mood
- Sleep

### References

1. Pongratz G and Straub R. Arthritis Res Ther. 2014;16:504.  
2. Kasperczyk S, et al. Toxicol Appl Pharmacol. 2014;280(1):36-41.  
3. Spindler M, et al. Neuropsychiatr Disease Treatment. 2009;5:597-610.  
4. Rochette L, et al. Can J Physiol Pharmacol. 2015;93(12):1021-7.  
5. Liu X, et al. Restor Neurol Neurosci. 2013;31(2):109-23.



# Avipaxin

Contains ingredients involved in the synthesis and activity of acetylcholine, a neurotransmitter important for learning, memory, and downregulation of the immune system\*

Item	Size	Serving size	Servings/container
20040	90 Capsules	3 Capsules	30

## Key Ingredients:

- Acetyl-L-carnitine
- Alpha-glycerolphosphorylcholine (50% alpha-GPC)
- *Huperzia serrata* (standardized to 1% huperzine A)

**Supplement Facts**  
Serving Size: 3 Capsules  
Servings Per Container: 30

Amount Per Serving	% Daily Value
<b>Proprietary Blend</b>	1.82 g †
Acetyl-L-carnitine HCl, Alpha-glycerolphosphorylcholine (50% Alpha-GPC), and <i>Huperzia serrata</i> (aerial parts) (1% huperzine A).	

† Daily Value not established.  
Not a significant source of sugar.

Other ingredients: Vegetable capsule (hypromellose, water), magnesium stearate (vegetable source), silica, and microcrystalline cellulose.



\*These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.



## Calm G

Best  
Seller

Contains a blend of ingredients important for regulating glutamate activity, stress-reduction, metabolic health, and mitochondrial function\*

Item	Size	Serving size	Servings/container
20004	90 Capsules	2 Capsules	45

### Key Ingredients:

- L-cysteine
- L-theanine
- Alpha-lipoic acid
- Coenzyme Q10
- L-methionine



## ImmuWell

Contains ingredients shown to support healthy immune responses as well as energy, mood, and memory processes\*

Item	Size	Serving size	Servings/container
20066	90 Capsules	3 Capsules	30

### Key Ingredients:

- Vitamin C
- Beta 1, 3/1, 6 D Glucan
- Zinc
- Black elderberry powder (*Sambucus nigra* L.)
- L-tyrosine
- Ginkgo biloba L. extract
- Vitamin D

### Supplement Facts

Serving Size: 2 Capsules  
Servings Per Container: 45

Amount Per Serving	% Daily Value
Folate (as L-5-methyltetrahydrofolate, calcium salt†)	272 mcg DFE 68%
Selenium (from L-selenomethionine)	70 mcg 127%

**Proprietary Blend** 1.1 g †  
L-cysteine, Alpha-lipoic acid, L-theanine, Coenzyme Q10, and L-methionine.

† Daily Value not established.

Other ingredients: Vegetable capsule (hypromellose, water), microcrystalline cellulose, magnesium stearate (vegetable source), silica, and dicalcium phosphate.



### Supplement Facts

Serving Size: 3 Capsules  
Servings Per Container: 30

Amount Per Serving	% Daily Value
Vitamin C (as ascorbic acid)	500 mg 556%
Vitamin D (as cholecalciferol)	25 mcg 125%
Zinc (as zinc bisglycinate chelate)	10 mg 91%

**Proprietary Blend** 1.2 g †  
Black elderberry powder (*Sambucus nigra* L.) (whole fruit), L-tyrosine, Beta 1, 3/1, 6 D Glucan (from *Saccharomyces cerevisiae*), *Ginkgo biloba* L. extract† (leaf) (24% total flavone glycosides, 6% total terpene lactones)

† Daily Value not established.

Other Ingredients: Vegetable capsule (hypromellose, water), organic rice concentrate, ascorbyl palmitate, and silica.

†Ginkgoselect® is a trademark of Indena S.A.S.



\*These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.



## Kavince OS

Comprehensive blend of antioxidants shown to improve the onset, duration, and efficiency of sleep while addressing oxidative stress\*

Item	Size	Serving size	Servings/container
20059	14 Capsules	2 Capsules	7
20053	60 Capsules	2 Capsules	30

### Key Ingredients:

- L-theanine
- Resveratrol
- Astaxanthin
- Magnesium
- Zinc
- Selenium
- Melatonin

Supplement Facts	
Serving Size: 2 Capsules Servings Per Container: 30	
Amount Per Serving	% Daily Value
Magnesium (as magnesium bisglycinate chelate)	25 mg 6%
Zinc (as zinc bisglycinate chelate)	15 mg 136%
Selenium (as selenomethionine)	200 mcg 364%
Melatonin	5 mg †
<b>Proprietary Blend</b>	214 mg †
L-theanine, Trans-resveratrol ( <i>Polygonum cuspidatum</i> ) (root), and Astaxanthin ( <i>Haematococcus pluvialis</i> ).	
† Daily Value not established.	

Other ingredients: Vegetable capsule (hypromellose, water), organic rice concentrate, microcrystalline cellulose, dicalcium phosphate, citric acid, and glycine.



## NeuroImmune Ingredient Index

**Acetyl-L-carnitine:** Derivative of L-carnitine, a compound that facilitates energy production in mitochondria and provides antioxidant protection<sup>47-49\*</sup>

**Alpha-GPC:** Patented choline donor and precursor to acetylcholine<sup>50,51</sup>

**Alpha-lipoic acid:** Antioxidant that is able to regenerate endogenous antioxidants and scavenge metal ions and free radicals<sup>52\*</sup>

**Astaxanthin:** A fat-soluble carotenoid with unique cell membrane activity, antioxidant properties, and neuroprotective effects<sup>53\*</sup>

**Beta glucan:** Beta-1,3 and beta-1,6 glucan contain conserved patterns recognized by the immune system, which primes the body for an effective immune response to microbial challenges. Research has shown beta glucans may reduce upper respiratory symptoms and improve mood states in stressed individuals.<sup>86,87\*</sup>

**Coenzyme Q10:** Compound found in nearly every human cell that is essential for mitochondrial function and antioxidant protection<sup>56\*</sup>

**Folate** (as 5-MTHF): Necessary vitamin in the development and regulation of the nervous system, including the synthesis of neurotransmitters<sup>7-9\*</sup>

**Elderberry:** Contains a variety of bioactive constituents that provide antioxidant support and inhibit the replication of microbes.\* Research has shown elderberry may boost immune defenses against microbial agents and support healthy cytokine expression.<sup>88,89\*</sup>

**Ginkgo biloba extract:** Consists of flavone glycosides, terpene trilactones (ginkgolides A, B, C), and ginkgolic acid (GA). Research shows constituents are involved in free radical scavenging, memory processing, and as antagonists of an immune activating mediator of the airways.<sup>90-92\*</sup>

**Huperzine A:** Slows the breakdown of the neurotransmitter acetylcholine by inhibiting the enzyme acetylcholinesterase<sup>13\*</sup>

**L-cysteine:** Rate-limiting amino acid required for glutathione<sup>21</sup>

**L-methionine:** Essential amino acid precursor to S-adenosyl-L-methionine (SAME), an important cofactor in the synthesis of the catecholamines<sup>14,15\*</sup>

**L-theanine:** Amino acid that acts as a glutamate receptor antagonist<sup>57\*</sup>

**Magnesium:** Cofactor for multiple mechanisms in the body including the production of serotonin and acting as a GABA agonist<sup>58\*</sup>

**Melatonin:** Antioxidant and hormone important for the regulation of the sleep-wake cycle<sup>70\*</sup>

**Mixed tocopherols:** Fat-soluble blend of vitamin E isoforms that are antioxidants with free radical scavenging properties<sup>59\*</sup>

**Resveratrol** (trans-resveratrol): Polyphenol antioxidant that supports blood sugar management<sup>61,62\*</sup>

**Selenium:** Micronutrient that helps to comprise selenoproteins; these proteins are crucial for brain function and for enzymes such as glutathione peroxidase<sup>22\*</sup>

**Vitamin A:** Fat-soluble vitamin important for retinal health, bone growth, and wound healing<sup>64\*</sup>

**Vitamin D:** Promotes antimicrobial peptide creation, immune cell migration to sites of immune activation, and elimination of foreign material that trigger an immune response.<sup>93\*</sup>

**Vitamin D3:** Fat-soluble vitamin that plays an important role in bone and immune health<sup>65\*</sup>

**Vitamin E:** Antioxidant that plays a role in neurological function and protection<sup>25,26\*</sup>

**Vitamin K:** Fat-soluble vitamin required for protein biosynthesis and enzymatic processes important for blood coagulation, cell growth, and

References on page 38.

## NeuroImmune Product Overview

	Avipaxin	Calm G	ImmuWell	Kavinace OS
<b>Clinical</b>				
Anxiousness/Stress		•		
Cognition/Focused Attention	•		•	
Energy			•	
Immune	•	•	•	•
Mood			•	
Sleep				•
<b>Biomarker**</b>				
Acetylcholine	↑↑↑			
Epinephrine			↑	
Dopamine			↑	
Glutamate		↓↓↓		↓↓
Melatonin				↑↑↑
Norepinephrine			↑↑↑	
Serotonin				
<b>Ingredients</b>				
Acetyl-L-carnitine	•			
Alpha-GPC	•			
Alpha-lipoic acid		•		
Astaxanthin				•
Beta 1, 3/1, 6 D Glucan			•	
Black elderberry powder ( <i>Sambucus nigra</i> L.)			•	
Coenzyme Q10		•		
Folate		•		
Ginkgo biloba L. extract			•	
Huperzine A	•			
L-cysteine		•		
L-methionine		•		
L-theanine		•		•
L-tyrosine			•	
Magnesium				•
Selenium		•		•
Vitamin C			•	
Vitamin D			•	
Zinc			•	•
<b>Recommended Dosing</b>				
Dosage Form	Capsules	Capsules	Capsules	Capsules
Available Sizes	90 Capsules	90 Capsules	90 Capsules	14 Capsules and 60 Capsules
Serving Size	3 Capsules	2 Capsules	3 Capsules	2 Capsules
Suggested Use (Do not exceed suggested use)	1-3 QD-BID	1-2 TID-QID	1-3 QD-BID	2 HS

\*\* The number and direction of the arrows reflect the precursor potential for metabolic end products and/or the mechanisms of action of select ingredient relationships as compared to other NeuroScience products. Please refer to the Product Quick Reference Guide for more information.

\*These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.

## Serotonin/GABA

Serotonin and its receptors are an integral part of many physiological functions in the nervous, endocrine, and gastrointestinal systems.<sup>1</sup> Serotonin is important for regulating mood and sleep-wake function.<sup>2</sup> GABA is the primary inhibitory neurotransmitter in the brain important for calm and sleep.<sup>3-5</sup>

**Products in this category may be recommended for:**

- Anxiousness/Stress
- Mood
- Sleep



## Alpha GABA

**Ingredients to promote calm during times of anxiousness while supporting a healthy response to stress, day or night\***

Item	Size	Serving size	Servings/container
20057	90 Capsules	3 Capsules	30

### Key Ingredients:

- L-theanine
- Ashwagandha (*Withania somnifera*) extract
- Passionflower (*Passiflora incarnata*) extract
- Lemon balm (*Melissa officinalis*) root extract
- 5-HTP (from *Griffonia simplicifolia* seed extract)
- L-tyrosine

Supplement Facts	
Serving Size: 3 Capsules	
Servings Per Container: 30	
Amount Per Serving	% Daily Value
Vitamin B6 (as pyridoxal 5'-phosphate)	2 mg 118%
L-theanine	400 mg †
Ashwagandha extract† ( <i>Withania somnifera</i> ) (root and leaf)	250 mg †
<b>Proprietary Blend</b>	620 mg †
Passion flower extract ( <i>Passiflora incarnata</i> ) (aerial parts), Lemon balm extract ( <i>Melissa officinalis</i> ) (aerial parts), and L-tyrosine.	
† Daily Value not established.	
Not a significant source of sugar.	

Other ingredients: Vegetable capsule (hypromellose, water), microcrystalline cellulose, organic rice concentrate, and silica.



### References

1. Berger M, et al. Annu Rev Med. 2009;60:355-66.
2. Monti J. Sleep Med Rev. 2011;15(4):269-81.
3. Gou Z, et al. Dongwuxue Yanjiu. 2012;33(E5-6):E75-81.
4. Mohler H. Neuropharmacology. 2012;62(1):42-53.
5. Saper C, et al. Nature. 2004;437(7063):1257-63.





## Alpha GABA PM

Researched blend of botanicals and 400 mg of L-theanine shown to induce calming brain waves and naturally improve sleep during times of stress\*

Item	Size	Serving size	Servings/container
20042	60 Capsules	2 Capsules	30

### Key Ingredients:

- L-theanine
- Melatonin
- Valerian (*Valeriana officinalis*) root extract (Valerenic acids 0.8%)
- Lemon balm (*Melissa officinalis*) leaf extract
- 5-HTP (from *Griffonia simplicifolia* seed extract)

### Supplement Facts

Serving Size: 2 Capsules  
Servings Per Container: 30

Amount Per Serving	% Daily Value
L-theanine	400 mg †
Melatonin	3 mg †

**Proprietary Blend** 530 mg †  
Valerian extract (*Valeriana officinalis*) (root) (0.8% valerenic acids), Lemon balm extract (*Melissa officinalis*) (leaf), and 5-hydroxytryptophan (from *Griffonia simplicifolia* seed extract).

† Daily Value not established.

Other ingredients: Vegetable capsule (hypromellose, water), organic rice concentrate, and silica.



## GABA Trex

Chewable tablets containing L-theanine, an amino acid shown to reduce stress\*

Item	Size	Serving size	Servings/container
20025	60 Tablets	2 Tablets	30

### Key Ingredients:

- L-theanine

### Supplement Facts

Serving Size: 2 Tablets  
Servings Per Container: 30

Amount Per Serving	% Daily Value
Calories	10
Total Carbohydrate	2 g <1%*
Total Sugars	0 g †
Xylitol	2 g †
L-theanine	200 mg †

\* Percent Daily Values are based on a 2,000 calorie diet.

† Daily Value not established.

Not a significant source of added sugars.

Other ingredients: Stearic acid, citric acid, stevia extract (*Stevia rebaudiana*) (leaf) (Rebaudioside A), silica, natural grape flavor, and magnesium stearate.





## Serene

Contains a blend of ingredients important for mood and sleep-wake function\*

Item	Size	Serving size	Servings/container
2014	60 Capsules	1 Capsule	30

### Key Ingredients:

- 5-HTP (from *Griffonia simplicifolia* seed extract)
- Vitamins B and C



## SeroTrex

Chewable tablets with ingredients important for mood and reducing stress\*

Item	Size	Serving size	Servings/container
20026	60 Tablets	2 Tablets	30

### Key Ingredients:

- 5-HTP (from *Griffonia simplicifolia* seed extract)
- L-theanine

### Supplement Facts

Serving Size: 1 Capsule  
Servings Per Container: 60

Amount Per Serving		% Daily Value
Vitamin C (as ascorbic acid)	300 mg	333%
Vitamin B6 (as pyridoxal 5'-phosphate)	2.5 mg	147%
Folate (as L-5-methyl-tetrahydrofolate, calcium salt*)	240 mcg DFE	60%
Calcium (as calcium citrate)	74 mg	6%
5-hydroxytryptophan (from <i>Griffonia simplicifolia</i> seed extract)	100 mg	†

† Daily Value not established.

Other ingredients: Vegetable capsule (hypromellose, water), magnesium stearate (vegetable source), and microcrystalline cellulose.



### Supplement Facts

Serving Size: 2 Tablets  
Servings Per Container: 30

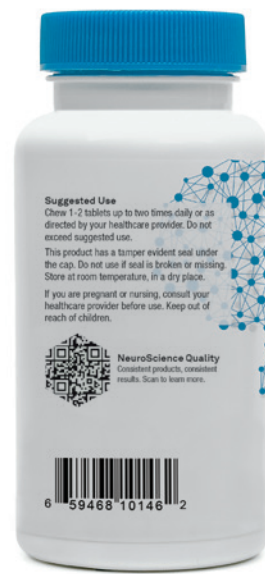
Amount Per Serving	% Daily Value
Calories	5
Total Carbohydrate	2 g <1%*
Total Sugars	0 g †
Xylitol	2 g †
L-theanine	200 mg †
5-hydroxytryptophan (from <i>Griffonia simplicifolia</i> seed extract)	60 mg †

\* Percent Daily Values are based on a 2,000 calorie diet.

† Daily Value not established.

Not a significant source of added sugars.

Other ingredients: Stearic acid, citric acid, magnesium stearate, natural orange flavor, and stevia extract (*Stevia rebaudiana*) (leaf) (Rebaudioside A).





## TravaCor

Best  
Seller

Contains a blend of ingredients shown to improve mood and reduce stress\*



## TravaGen

Contains a blend of ingredients important for mood and reducing stress\*

Utilizes L-tryptophan to provide gentler conversion to serotonin compared to 5-HTP\*

Item	Size	Serving size	Servings/container
20014	60 Capsules	3 Capsules	20
2037	120 Capsules		40

Item	Size	Serving size	Servings/container
20056	120 Tablet	3 Tablets	40

### Key Ingredients:

- Taurine
- L-theanine
- 5-HTP (from *Griffonia simplicifolia* seed extract)
- Vitamins B and C

### Key Ingredients:

- L-tryptophan
- Taurine
- L-theanine
- Vitamins B and C

### Supplement Facts

Serving Size: 3 Capsules  
Servings Per Container: 20

Amount Per Serving		% Daily Value
Vitamin C (as ascorbic acid)	40 mg	44%
Vitamin B6 (as pyridoxal 5'-phosphate)	9 mg	529%
Folate (as L-5-methyltetrahydrofolate, calcium salt†)	384 mcg DFE	96%
Vitamin B12 (as methylcobalamin)	30 mcg	1250%
Magnesium (as magnesium bisglycinate)	50 mg	12%
Zinc (as zinc bisglycinate chelate)	10 mg	91%
Selenium (as L-selenomethionine)	70 mcg	127%

<b>Proprietary Blend</b>	950 mg	†
L-tyrosine, L-theanine, and L-5-hydroxytryptophan (from <i>Griffonia simplicifolia</i> seed extract).		

† Daily Value not established.

Other ingredients: Vegetable capsule (hypromellose, water), microcrystalline cellulose, organic rice concentrate, magnesium stearate (vegetable source), and dicalcium phosphate.



### Supplement Facts

Serving Size: 3 Tablets  
Servings Per Container: 40

Amount Per Serving		% Daily Value
Vitamin C (as ascorbic acid)	40 mg	44%
Niacin (from L-tryptophan)	25 mg NE	156%
Vitamin B6 (as pyridoxal 5'-phosphate)	9 mg	529%
Folate (as L-5-methyltetrahydrofolate, calcium salt†)	360 mcg DFE	90%
Vitamin B12 (as methylcobalamin)	30 mcg	1250%
Calcium (from dicalcium phosphate)	75 mg	6%
Phosphorus (from dicalcium phosphate)	60 mg	5%
Zinc (from zinc bisglycinate chelate)	6 mg	55%
Selenium (from L-selenomethionine)	7 mcg	13%

<b>Proprietary Blend</b>	1.95 g	†
L-tryptophan, L-tyrosine, and L-theanine.		

† Daily Value not established.

Other ingredients: Microcrystalline cellulose, hydroxypropyl methylcellulose, hydroxypropyl cellulose, croscarmellose sodium, stearic acid, magnesium stearate (vegetable capsule), silica, and glycerin.



References on page 38.

\*These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.

## Serotonin/GABA Ingredient Index

- 5-HTP** (5-hydroxytryptophan): Crosses the blood-brain barrier and is the precursor to serotonin and melatonin<sup>1</sup>
- Ashwagandha**: Sensoril is backed by 12 clinical studies and has been shown to significantly reduce stress and anxiousness<sup>83\*</sup>
- Calcium**: A mineral that is important for synaptic transmission in the nervous system<sup>67\*</sup>
- Folate** (as 5-MTHF): Necessary vitamin in the development and regulation of the nervous system, including the synthesis of neurotransmitters<sup>7-9\*</sup>
- Lemon Balm**: Botanical shown to inhibit the enzyme GABA transaminase *in vitro*, which may increase levels of GABA in the brain<sup>68\*</sup>
- L-theanine**: Amino acid that acts as a glutamate receptor antagonist<sup>57\*</sup>
- L-tryptophan**: Essential amino acid precursor to serotonin and melatonin. L-tryptophan provides gentler conversion to serotonin compared to 5-hydroxytryptophan (5-HTP) as the rate-limiting step in the synthesis of serotonin is the conversion of L-tryptophan to 5-HTP<sup>1,69\*</sup>
- Magnesium**: Mineral found in the body that is important for neurotransmitter release and energy metabolism<sup>37\*</sup>
- Melatonin**: Hormone important for the regulation of the sleep-wake cycle<sup>70\*</sup>
- Passionflower**: Botanical shown to bind to the GABA site of GABA-A receptors that are essential for down-regulating the hypothalamic-pituitary-adrenal (HPA) axis<sup>84,85\*</sup>
- Selenium**: Micronutrient that helps to comprise selenoproteins; these proteins are crucial for brain function and for enzymes such as glutathione peroxidase<sup>22\*</sup>
- Taurine**: Neuroprotective amino acid that provides antioxidant protection and demonstrates GABA-A agonist activity<sup>43-45\*</sup>
- Valerian root**: Both *in vitro* and *in vivo* studies demonstrate valerian extracts modulate GABA-A receptors<sup>71-74\*</sup>
- Vitamin B12**: This vitamin is essential in the development and function of the nervous system and the formation of neurotransmitters<sup>46\*</sup>
- Vitamin B6**: This vitamin is an essential cofactor in the synthesis of neurotransmitters<sup>23\*</sup>
- Vitamin C**: This vitamin acts as an essential cofactor in the synthesis of neurotransmitters<sup>24\*</sup>
- Zinc**: Essential micronutrient that is important for synaptic plasticity and is commonly found within neurons in the cerebral cortex<sup>27\*</sup>

## Serotonin/GABA Product Overview

	Alpha GABA	Alpha GABA PM
Clinical Indication		
Anxiousness/Stress	•	•
Mood		
Sleep		•
Biomarker**		
GABA	↑↑	↑↑
Glutamate	↓↓↓	↓↓↓
Serotonin		↑
Taurine		
Ingredients		
5-HTP		•
Ashwagandha	•	
Calcium		
Folate		
L-theanine	•	•
L-tryptophan		
Lemon balm	•	•
Magnesium		
Melatonin		•
Passionflower	•	
Selenium		
Taurine	•	
Valerian root		•
Vitamin B12		
Vitamin B6	•	
Vitamin C		
Zinc		
Description		
Dosage Form	Capsules	Capsules
Available Sizes	90 Capsules	60 Capsules
Serving Size	3 Capsules	1-2 Capsules
Suggested Use (Do not exceed suggested use)	2-3 BID	1-2 HS

\*\* The number and direction of the arrows reflect the precursor potential for metabolic end products and/or the mechanisms of action of select ingredient relationships as compared to other NeuroScience products. Please refer to the Product Quick Reference Guide for more information.

\*These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.

	GABA Trex (Chewable)	Serene	SeroTrex (Chewable)	TravaCor	TravaGen
<b>Clinical</b>					
Anxiousness/Stress	•		•	•	•
Mood		•	•	•	•
Sleep	•	•	•	•	•
Vasomotor					
<b>Biomarker**</b>					
GABA					
Glutamate	↓		↓	↓↓	↓↓
Melatonin					
Serotonin			↑	↑↑↑	↑
Taurine				↑↑↑	↑↑
<b>Ingredients</b>					
5-HTP		•	•	•	
Ashwagandha					
Black cohosh					
Blueberry fruit extract					
Calcium		•			
Folate		•		•	•
L-theanine	•		•	•	•
L-tryptophan					•
Magnesium				•	
Melatonin					
Sceletium					
Selenium				•	•
Taurine				•	•
Vitamin B12				•	•
Vitamin B6		•		•	•
Vitamin C		•		•	•
Zinc				•	•
<b>Description</b>					
Dosage Form	Chewable Tablets	Capsules	Chewable Tablets	Capsules	Capsules
Available Sizes	60 Tablets	60 Capsules	60 Tablets	60 and 120 Capsules	120 Capsules
Serving Size	2 Tablets	1 Capsule	2 Tablets	3 Capsules	3 Capsules
Suggested Use (Do not exceed suggested use)	1-2 QD-TID	1 QD-BID	1-2 QD-BID	1-3 QD-BID	1-3 QD-BID

\*\* The number and direction of the arrows reflect the precursor potential for metabolic end products and/or the mechanisms of action of select ingredient relationships as compared to other NeuroScience products. Please refer to the Product Quick Reference Guide for more information.

## Integrations

To better connect the dots between bodily systems and complement existing targeted support, we introduce the Integrations product category. With formulations designed to further develop strong personalized foundations that comprehensively supplement for the wellbeing of each individual patient.

### Products in this category may be recommended for:

- Age specific methylation support
- Genetic predisposition (SNPs)
- Individualizing patient profiles



## Methyl FMT

New Product

Fundamental methylation support and complete cofactor fuel designed for the entire family, from genetics and mood to healthy homocysteine\*

Item	Size	Serving size	Servings/container
20062	60 Capsules	2 Capsules	30

### Key Ingredients:

- Trimethylglycine
- Folate
- Magnesium
- Niacin
- Vitamin B6
- Vitamin B12
- Zinc

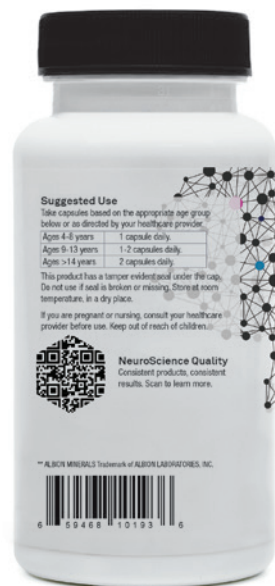
### Supplement Facts

Serving Size: 2 Capsules  
Servings Per Container: 30

Amount Per Serving		% Daily Value
Riboflavin (as riboflavin 5'-phosphate)	25 mg	1923%
Niacin (as niacinamide)	8 mg NE	50%
Vitamin B6 (as pyridoxal 5'-phosphate)	10 mg	588%
Folate (as L-5-methyltetrahydrofolate, calcium salt)	400 mcg DFE	100%
Vitamin B12 (as methylcobalamin)	500 mcg	20833%
Magnesium (as magnesium bisglycinate chelate**)	25 mg	6%
Zinc (as zinc bisglycinate chelate**)	3 mg	27%
Trimethylglycine (as betaine anhydrous)	700 mg	†

† Daily Value not established.

Other ingredients: Vegetable capsule (hypromellose, water), microcrystalline cellulose, magnesium stearate (vegetable source), and silica.

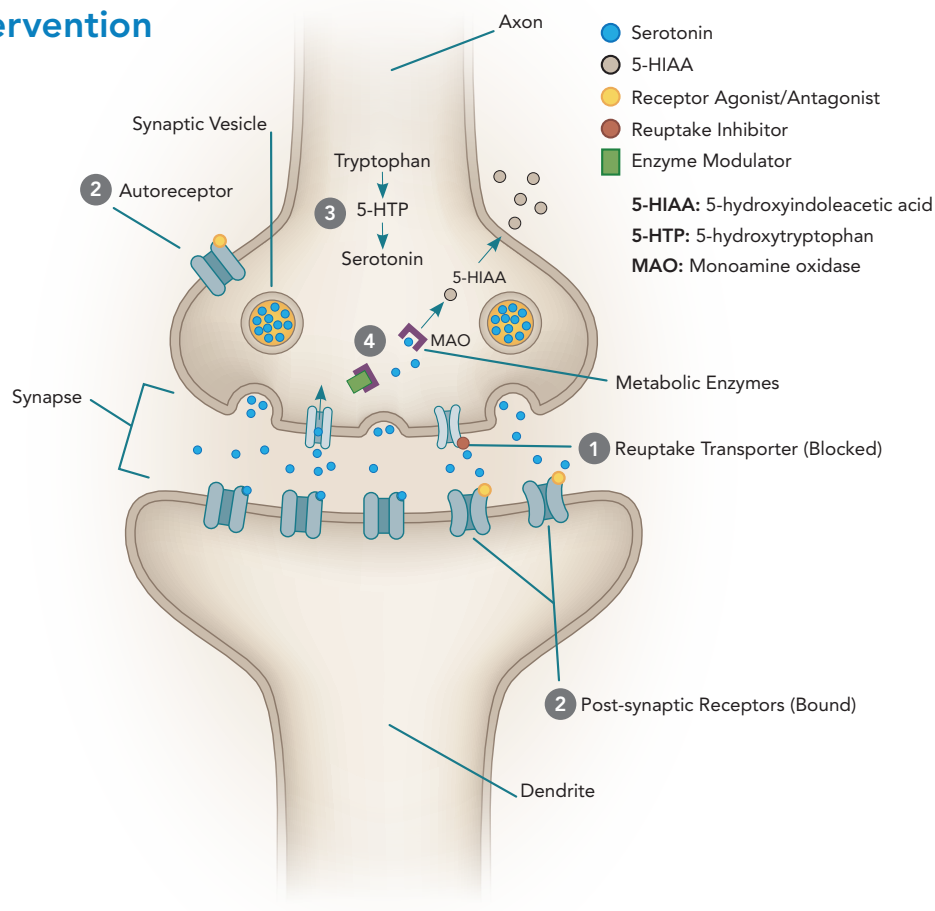




# Pathway Biochemistry Guide

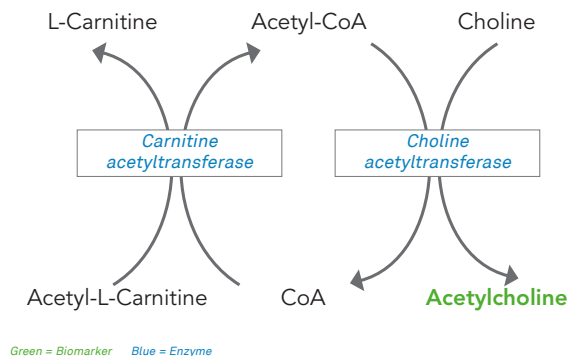
## Biochemical Methods of Intervention

- 1 **Reuptake Inhibitors**  
block the action of transporters that move neurotransmitters from the synapse back into the presynaptic neuron.
- 2 **Receptor Agonists**  
mimic the effects of neurotransmitters on receptor binding sites.  
**Antagonists** inhibit the effects.
- 3 **Amino acid precursors**  
are the biochemical predecessors to neurotransmitters.
- 4 **Enzyme modulators**  
alter the actions of specific enzymes.

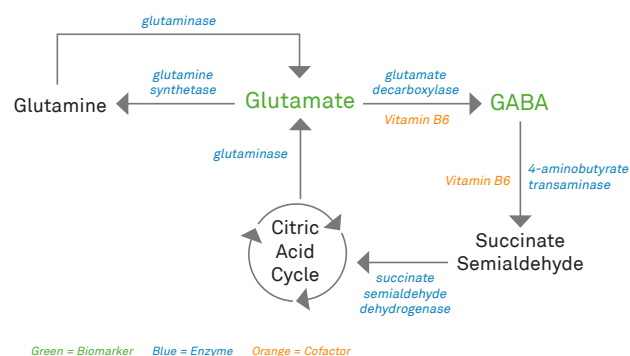




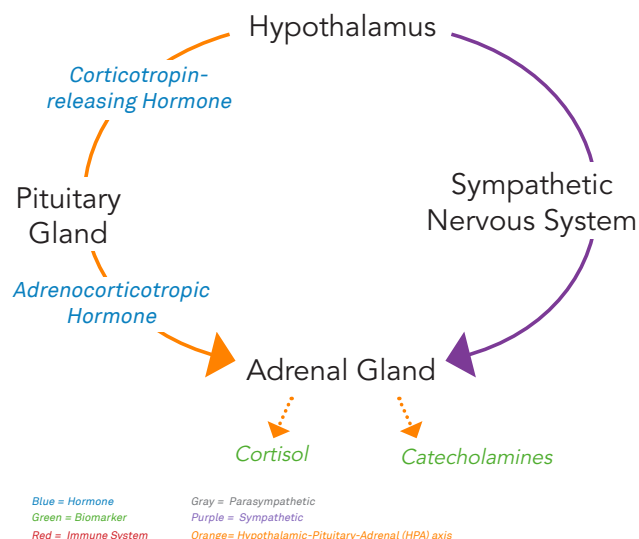
## Acetylcholine Pathway



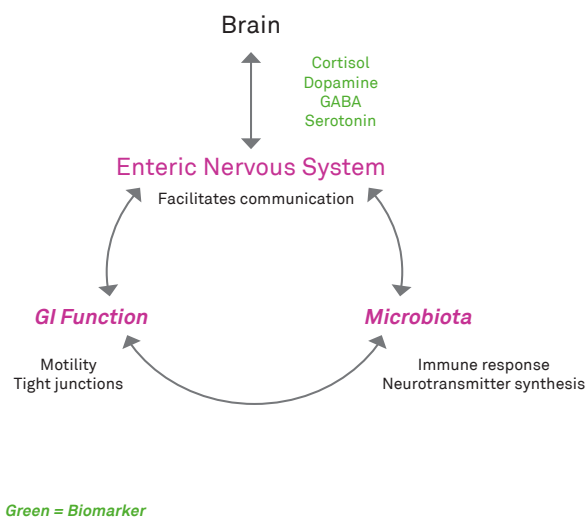
## Glutamate/GABA Pathway



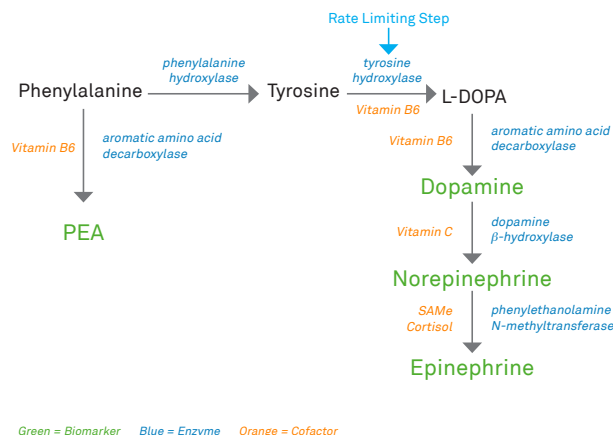
## Adrenal Pathway



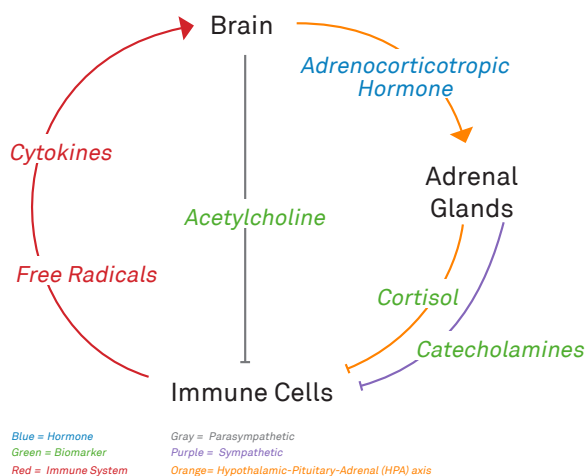
## Gut-Brain Connection



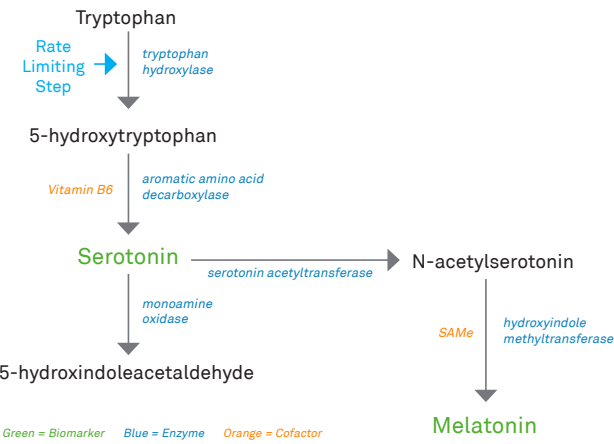
## Catecholamine Pathway



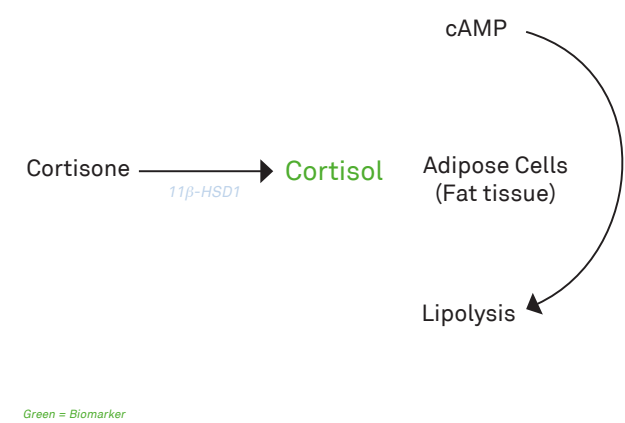
## NeuroImmune Pathway



# Tryptophan Pathway



# Weight Management



\*These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.

# NeuroScience Quality Management System

## Consistent products, consistent results



### Scientific Research

We formulate based on published scientific journals and clinical studies that discuss safe and effective ingredients as well as the amount necessary for positive outcomes.

### Ingredients

We audit our manufacturers to ensure ingredients meet our specifications for purity and strength.

### Manufacturers

We use FDA-inspected facilities located in the United States that are cGMP (Current Good Manufacturing Practices) compliant and NSF accredited.

### Finished Product Testing

We contract laboratories to independently verify the purity, strength, and composition as well as test for microbiological, heavy metal, and chemical contaminants.



\*These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.

# NeuroSelect Technology

NeuroSelect is a NeuroScience healthcare provider-exclusive interactive technology formulated to streamline supplement selection, all without personal health information.

NeuroSelect offers five approaches for NeuroScience product selection

## QR Scanner

✓ NeuroSelect App

## Pathway

✓ NeuroSelect App  
✓ NeuroScience website

## Start with Sleep

✓ NeuroSelect App  
✓ NeuroScience website

## Clinical Indications

✓ NeuroSelect App  
✓ NeuroScience website

## Build Your Own

✓ NeuroSelect App  
✓ NeuroScience website



**Anxiety**  
Contains 100 mg of L-Theanine, 100 mg of Magnesium, and 100 mg of Vitamin B6.

**Mood**  
Contains 100 mg of L-Theanine, 100 mg of Magnesium, and 100 mg of Vitamin B6.



Scan code on neurotransmitter report

Select pathway(s)

Target sleeplessness at a source

Select symptom(s)

Create your own Product Information Request (PIR)

Also available on our website [www.neuroscienceinc.com](http://www.neuroscienceinc.com)

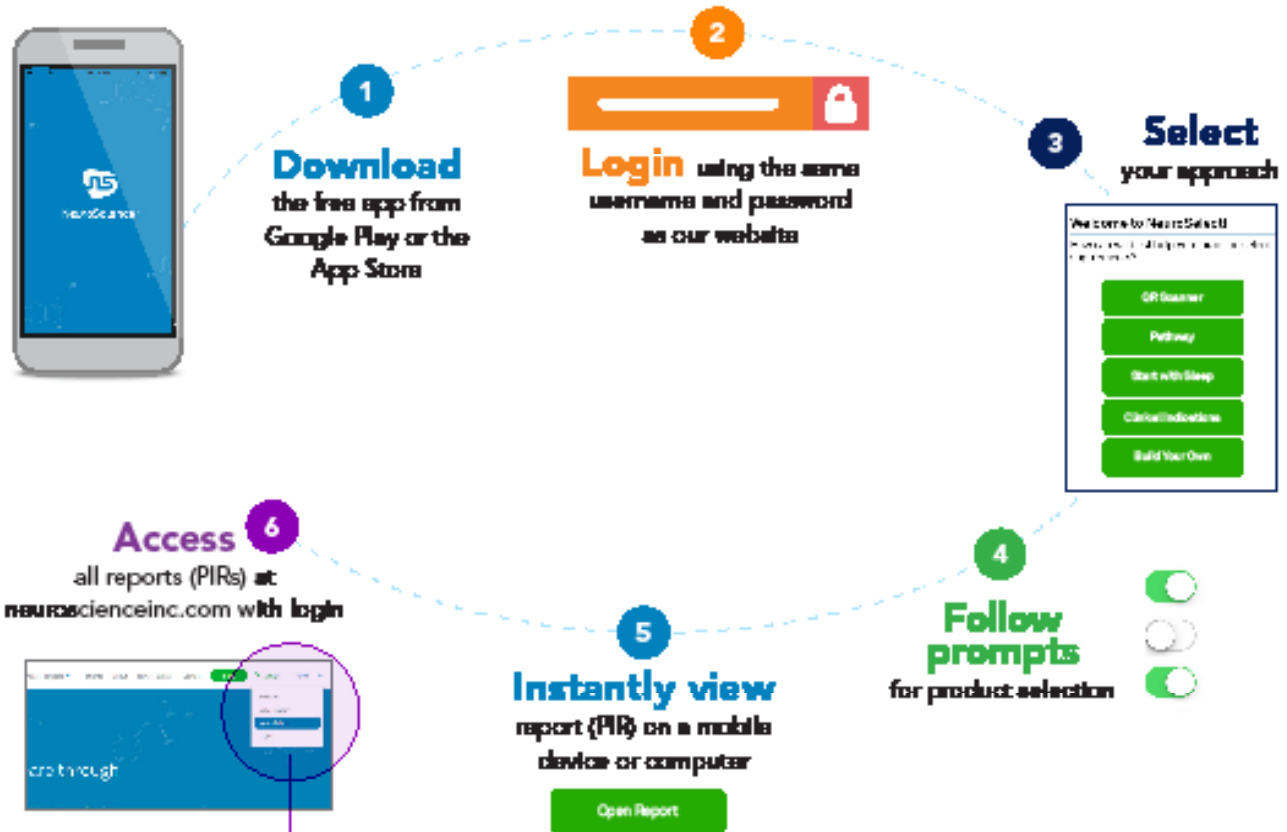


Scan to download the free NeuroSelect app  
Available on Google Play and the App Store



\*These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.

# How it works



Product Information Request ID #38357788			
Healthcare Provider Neuroscience Inc. 20100 St. Louis, MO 63114 (Phone: 800.888.8888)	Requested for New Female Age 44		
Pathways	High GABAergic Neurotransmitter System	Regenerative GABAergic Neurotransmitter System	Regenerative GABAergic Neurotransmitter System
Servings Size	1000mg	1000mg	1000mg
Suggested Use***	Take 1 capsule one to two times daily or as directed by your healthcare provider	Take 1 capsule one to two times daily or as directed by your healthcare provider	Take 1 capsule one to two times daily or as directed by your healthcare provider
Additional Information	Contains a blend of ingredients shown to improve mood and reduce stress**	Contains a blend of ingredients shown to improve mood and reduce stress**	Contains a blend of ingredients shown to improve mood and reduce stress**
Key Ingredients	<b>1. GABA</b> GABA is the primary inhibitory neurotransmitter in the brain and is responsible for regulating the activity of other neurotransmitters. <b>2. L-Theanine</b> L-Theanine is an amino acid found in green tea leaves that has been shown to promote relaxation and improve focus. <b>3. Magnesium</b> Magnesium is a mineral that is essential for many bodily functions, including muscle relaxation and nerve function.	<b>1. GABA</b> GABA is the primary inhibitory neurotransmitter in the brain and is responsible for regulating the activity of other neurotransmitters. <b>2. L-Theanine</b> L-Theanine is an amino acid found in green tea leaves that has been shown to promote relaxation and improve focus. <b>3. Magnesium</b> Magnesium is a mineral that is essential for many bodily functions, including muscle relaxation and nerve function.	<b>1. GABA</b> GABA is the primary inhibitory neurotransmitter in the brain and is responsible for regulating the activity of other neurotransmitters. <b>2. L-Theanine</b> L-Theanine is an amino acid found in green tea leaves that has been shown to promote relaxation and improve focus. <b>3. Magnesium</b> Magnesium is a mineral that is essential for many bodily functions, including muscle relaxation and nerve function.

## Product Information Request (PIR)

### Reports in a simple and professional format

Selected products based on the criteria provided

Pathway

Serving Size and Suggested Use

Additional Information

Key Ingredients

\*These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.

# Product Ordering

## Online

[www.neuroscienceinc.com](http://www.neuroscienceinc.com) (login required)

## Call Us

Customer Service can be reached at 888-342-7272  
Monday - Friday 8:00 a.m. to 5:00 p.m. (CT)

## NeuroScience Internet Reseller Policy

NeuroScience is a "professional only" brand. Please see our Product Resale Agreement on our website for guidelines.

## NeuroScience Product Return Policy

NeuroScience stands behind the quality of its products. If you do have a return, please contact customer service for our policy and approval.

# Product Shipping

## Shipping

Orders received by 3:00 p.m. CT are shipped that day.

## Domestic Shipping Charges/Delivery

- Shipping is free for orders over \$100.00
- Orders under \$100.00 will be charged a \$12.00 flat rate (AK & HI \$12.00)

All orders are sent FedEx with guaranteed delivery within 3 business days. Expedited shipping is available upon request; appropriate charges will apply.

## International Shipping

### Canada

NeuroScience cannot ship products to Canada.

### Other Countries

Available upon request; appropriate charges will apply. All duties and taxes are the customer's responsibility.

## Patient Fulfillment

### Domestic Drop-Ship

Meet a more efficient way to get trusted NeuroScience products to your patients. Built to better serve virtual healthcare practices, use our Patient Fulfillment platform to invite patients to your storefront for personalized recommendations, **2 Day shipping on all orders**, exclusive product bundles, autoship capabilities, and more!

Readily accessible on the NeuroScience website as part of your existing professional account.

## Products also available through:

### Doctors Supplement Store

Let us set up your free personalized online store with access to hundreds of professional brands. We do all the work! You'll love how we take care of you and your patients. You can count on fast, accurate orders, friendly Midwest people and unlimited support – we call it Uncommonly Good Customer Service!

Phone: 1-877-846-7122      1739 Larkin Williams Road  
Fax: 1-636-326-7101      St. Louis, MO 63026  
[support@DSSOrders.com](mailto:support@DSSOrders.com)  
[www.DoctorsSupplementStore.com](http://www.DoctorsSupplementStore.com)

Mon-Fri 8:00 a.m. to 6:00 p.m. Central Time

### Emerson Ecologics

For over 40 years, Emerson Ecologics has been a vital link between integrative health practitioners and their patients and clients. Our commitment to providing access to the highest quality professional-grade supplements, clinical education resources, safe patient protocols and innovative technological solutions empowers healthcare professionals to succeed in improving patient lives.

Phone: 1-888-654-4432      1230 Elm St Ste 301  
[www.naturalpartners.com](http://www.naturalpartners.com)      Manchester, NH, 03101

Mon-Fri 8:30 a.m. to 8 p.m. Eastern Time

### Fullscript

Fullscript is the leading platform for online supplement prescriptions. We provide effortless dispensing and fulfillment for over 20,000 practitioners and their patients across the U.S. and Canada. Fullscript's mission is to take the hassle out of integrative healthcare by making supplementation seamless and easy for practitioners and their patients. We're making strides on this mission with every new practitioner we bring on board.

Phone: 1-866-807-3828      245 Cooper St. 6th Floor  
Fax: 1-888-286-3313      Ottawa ON Canada K2P 0G2  
[www.fullscript.com](http://www.fullscript.com)

Mon-Thur 9 a.m. – 9 p.m. Eastern Time

Fri-Sat 9 a.m. – 5 p.m. Eastern Time

### Kaerwell

Kaerwell is the leading solution enabling healthcare practitioners to not only learn but also dispense dietary supplements online without holding inventory. No credit card, no contract and free to sign up.

Toll free: 1-888-301-9009      534 S Chickasaw Trail  
[www.Kaerwell.com](http://www.Kaerwell.com)      Orlando, FL 32825

NeuroScience welcomes an opportunity to speak with you.

Please feel free to contact us.

Phone 1-888-342-7272

Fax 1-715-294-3921

Online [www.neuroscienceinc.com/contact/](http://www.neuroscienceinc.com/contact/)

Address 373 280th Street, Osceola, WI 54020

Email [customerservice@neurorelief.com](mailto:customerservice@neurorelief.com)

Web [www.neuroscienceinc.com](http://www.neuroscienceinc.com)



Follow us



Join our list

Stay up-to-date on products, promotions, and more.

## References

1. Shaw K, et al. *Cochrane Database Syst Rev*. 2002;(1):CD003198.
2. Kamkaew N, et al. *Phytother Res*. 2013;27(1):135-8.
3. Liu X, et al. *Restor Neurol Neurosci*. 2013;31(2):109-23.
4. Rastogi M, et al. *Biogerontology*. 2012;13(2):183-95.
5. Sheikh N, et al. *J Ethnopharmacol*. 2007;111(3):671-6.
6. Cefalu WT and Hu FB. *Diabetes Care*. 2004;27(11):2741-51.
7. Antoniadis C, et al. *Circulation*. 2006;114(11):1193-201.
8. Mattson M and Shea T. *Trends Neurosci*. 2003;26(3):137-46.
9. Stahl S. *J Clin Psychiatry*. 2008;69(9):1352-3.
10. Godard M, et al. *Obes Res*. 2005;13(8):1335-43.
11. Jeukendrup A and Randell R. *Obes Rev*. 2011;12(10):841-51.
12. Lee M, et al. *Phytother Res*. 2009;23(8):1088-91.
13. Tun M and Herzon S. *J Exp Pharmacol*. 2012;4:113-23.
14. Duncan T, et al. *Mol Nutr Food Res*. 2013;57(4):628-36.
15. Mischooulon D and Fava M. *Am J Clin Nutr*. 2002;76(5):1158S-61S.
16. Ng J, et al. *Nat Rev Neurol*. 2015;11:567-84.
17. Chen P, et al. *J Neurochem*. 2015;134:601-610.
18. Tuleun C, et al. *Livestock Research for Rural Development*. 2008;20(10).
19. Pardridge W. *NeuroRx*. 2005;2(1):3-14.
20. Rushworth G and Megson I. *Pharmacol Ther*. 2014;141(2):150-9.
21. Schmitt B, et al. *Redox Biol*. 2015;6:198-205.
22. Rayman MP. *Lancet*. 2012;379:1256-69.
23. Martin D. *Cell Mol Neurobiol*. 1987;7(3):237-53.
24. May J, et al. *Brain Res Bull*. 2013;90:35-42.
25. Lobo V, et al. *Pharmacogn Rev*. 2010;4(8):118-126.
26. Nooyens A, et al. *Brit J Nutr*. 2015;113:1410-1417.
27. Frederickson CJ, et al. *Nat Rev Neurosci*. 2005;6:449-462.
28. Patel H, et al. *Arabian Journal of Chemistry*. 2015.
29. Rollinger J, et al. *Bioorg Med Chem*. 2010;18(4):1507-15.
30. Kawai N, et al. *Amino Acids*. 2012;42(6):2129-37.
31. Kawai N, et al. *Neuropsychopharmacology*. 2015;40(6):1405-16.
32. Legeay S, et al. *Nutrients*. 2015;7(7):5443-68.
33. Teng Y and Wu D. *Pharmacogn Mag*. 2017;13(50):326-31.
34. Krystal A, et al. *Sleep Med Rev*. 2013;17(4):263-72.
35. van Gelderen C, et al. *Hum Exp Toxicol*. 2000;19(8):434-9.
36. Chapman K, et al. *Physiol Rev*. 2013;93(3):1139-206.
37. Fawcett WJ, et al. *Brit J Anaesth*. 1999;83(2):302-20.
38. Vrecko K, et al. *Biochim Biophys Acta*. 1997;1361(1):59-65.
39. Ragaller V, et al. *J Anim Physiol Anim Nutr (Berl)*. 2011;95(1):6-16.
40. Glade M and Smith K. *Nutrition*. 2015;31(6):781-6.
41. Monteleone P, et al. *Eur J Clin Pharmacol*. 1992;41:385-8.
42. Chiang H, et al. *J Food Drug Anal*. 2015;23(3):359-69.
43. Kletke O, et al. *PLoS One*. 2013;8(4):e61733.
44. Kumari N, et al. *Adv Exp Med Biol*. 2013;775:19-27.
45. Shimada K, et al. *Adv Exp Med Biol*. 2015;803:581-96.
46. Bottiglieri T. *Psychiatr Clin North Am*. 2013;36(1):1-13.
47. Gulcin I. *Life Sci*. 2006;78(8):803-11.
48. Parnetti L, et al. *Eur J Clin Pharmacol*. 1992;42(1):89-93.
49. Pekala J, et al. *Curr Drug Metab*. 2011;12(7):667-78.
50. Ueland P. *J Inher Metab Dis*. 2011;34(1):3-15.
51. Abbiati G, et al. *Eur J Drug Metab Pharmacokinet*. 1993;18(2):173-80.
52. Rochette L, et al. *Can J Physiol Pharmacol*. 2015;93(12):1021-7.
53. Wu H, et al. *Mar Drugs*. 2015;13(9):5750-66.
54. Schweizer S, et al. *J Nat Prod*. 2000;63:1058-61.
55. Radmark O, et al. *Biochim Biophys Acta*. 2015;1851(4):331-9.
56. Garrido-Maraver J, et al. *Front Biosci (Landmark Ed)*. 2014;19:619-33.
57. Kakuda T, et al. *Biosci Biotechnol Biochem*. 2002;66(12):2683-6.
58. Schwalfenberg G, et al. *Scientifica*. 2017;4179326.
59. Mathur P, et al. *Clin Cardiol*. 2015;38(9):570-6.
60. Swanson D, et al. *Adr Nutr*. 2012;3(1):1-7.
61. Bransy P, et al. *Br J Nutr*. 2011;106(3):383-9.
62. Magyar K, et al. *Clin Hemorheol Microcirc*. 2012;50(3):179-87.
63. Usharani P, et al. *Drugs R D*. 2008;9(4):243-50.
64. Duerbeck N and Dowling D. *Obstet Gynecol Surv*. 2012;67(2):122-8.
65. Prietl B, et al. *Nutrients*. 2013;5(7):2502-21.
66. Hartley L, et al. *Cochrane Database Syst Rev*. 2015;9:CD011148.
67. Sudhof T. *Cold Spring Harb Perspect Biol*. 2012;4:a011353.
68. Awad R, et al. *Phytother Res*. 2009;23(8):1075-81.
69. Birdsall T. *Altern Med Rev*. 1988;3(4):271-80.
70. Pandi-Perumal S, et al. *Prog Neurobiol*. 2008;85(3):225-53.
71. Benke D, et al. *Neuropharmacology*. 2009;56(1):174-81.
72. Khom S, et al. *Br J Pharmacol*. 2010;161(1):65-78.
73. Murphy K, et al. *Phytomedicine*. 2010;17:674-8.
74. Becker A, et al. *BMC Complement Altern Med*. 2014;14:267.
75. Nedd S, et al. *J Mol Biol*. 2014;426(24):4112-4124.
76. Phelps Brown NA, et al. *Eye*. 1998;12:127-33.
77. Yagnik D, et al. *Sci Rep*. 2018;8(1):1732.
78. Zare-Shehneh M, et al. *Int J Biosci*. 2014;4(6):89-99.
79. Strandwitz P. *Brain Res*. 2018;1693(Pt B):128-133.
80. Di Cerbo A, et al. *J Clin Pathol*. 2016;69(3):187-203.
81. Guinane CM and Cotter PD. *Ther Adv Gastroenterol*;6(4):295-308.
82. Shehzad A, et al. *Biofactors*. 2013;39(1):69-77.
83. Auddy B, et al. *JANA*. 2008;11(1):50-6.
84. Appel K, et al. *Phytother Res*. 2011;25(6):838-43.
85. Herman J, et al. *Prog Brain Res*. 2008;170:353-64.
86. De Marco Castro E, et al. *Mol Nutr Food Res*. 2021;65(1):e1901071.
87. Talbott and Talbott. *J Am Coll Nutr*. 2012;31(4):295-300.
88. Porter and Bode. *Phytother Res*. 2017;31(4):533-54.
89. Ulbricht C, et al. *J Diet Suppl*. 2014;11(1):80-120.
90. Xia Shishi and Fang Dian-chun. *Chin Med J* 2007; 120(10):922-928.
91. Stough C, et al. *Int Journal of Neuropsychopharmacology*. 2001; 4, 131-134.
92. DeFeudis F.V. Elsevier. 1991; 143-146.
93. Siddiqui M, et al. *Nutrients*. 2020;12(9):2879.