

# Metabolic Code® KYOLIC®+

## Supports Circulatory Function and Overall Heart Health\*

- Clinical Strength, Odorless Formula
- **Metabolic Code® Kyolic®+** formula blends clinically proven Kyolic® Aged Garlic Extract™ and MegaNatural-BP® proprietary Grape Seed Extract to create a superior antioxidant supplement to optimize heart and vascular health.\*
- **Metabolic Code® Kyolic®+** is odorless, GI friendly and meets nutrient standards for purity and potency, as well as overall product quality.

**SUGGESTED USE:** Take three caplets daily with a meal.

### Supplement Facts

Serving Size 3 caplets

Servings Per Container 30

	Amount per serving	%DV
Aged Garlic Extract™†† Powder (bulb)	2400 mg	**
Grape Seed Extract (MegaNatural-BP®)	300 mg	**

\*\*Daily Value (DV) not established

†† Special Garlic Preparation

**Other ingredients:** Microcrystalline cellulose, Organic Rice Extract Blend (Rice extract, rice hulls, gum arabic, sunflower oil), Croscarmellose Sodium, Hydroxypropylcellulose, Silicon Dioxide, Organic Coating (maltodextrin, sunflower lecithin, palm oil, guar gum), Carnuba Wax.

**Free of:** GMOs, soy, gluten, sugar, dairy, preservatives, artificial colors and flavors.

**Warning:** Consult your healthcare professional before using this or any product if you are pregnant, nursing, or under medical care.

**Refrigeration not required.** Store in a cool, dry place with cap tight.

**Keep out of reach of children.**

**Safety Sealed:** Do not use if safety band or inner seal is broken or missing.

MegaNatural-BP® is a registered trademark of E. & J. Gallo Winery.

**Manufactured by:**

Wakunaga of America Co., Ltd.  
Mission Viejo, CA 92691 USA  
800.421.2998 www.kyolic.com

**Distributed by:**

Natural Formulations, LLC  
Cincinnati, OH 45202 USA  
www.metaboliccode.com

### Product Code

502-69CX: 90 caplets



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This product is not intended to diagnose, treat, cure or prevent any disease.

INTENDED FOR PROFESSIONAL USE ONLY

# Metabolic Code<sup>®</sup> KYOLIC<sup>®</sup>+

## Supports Circulatory Function and Overall Heart Health\*

**Metabolic Code<sup>®</sup> Kyolic<sup>®</sup>+** containing Aged Garlic Extract™ (AGE) [2400 mg] and Grape Seed Extract (MegaNatural-BP<sup>®</sup>) [300 mg] per serving [3 caplets], is designed to support circulatory function and overall heart health.\*

Aged Garlic Extract was shown in several clinical studies to support a healthy cardiovascular system by reducing the risk factors that cause atherosclerosis (e.g., coronary artery calcification<sup>1-3,15,16</sup>, cholesterol<sup>13,21-26</sup>, homocysteine<sup>18</sup>, blood pressure<sup>9-12,17</sup>, oxidative stress<sup>19,20</sup>, vessel function and circulation<sup>4-8,27-29</sup>).

MegaNatural-BP<sup>®</sup> is a grape seed extract standardized for total phenolics, gallic acid and the catechin and epicatechin content. One randomized, double-blind, placebo-controlled, parallel-group study showed that taking 300 mg daily of MegaNatural-BP tends to stabilize blood pressure in adults with normal and high blood pressure when consumed daily for 8 weeks<sup>14</sup>.

### Kyolic<sup>®</sup> Aged Garlic Extract™ Clinical Studies

	Subjects	Dose & Duration	Results*	Publication(s)
<b>Coronary Artery Calcification</b>	<ul style="list-style-type: none"> <li>n=66 (Kyolic n=37; placebo n=29)</li> <li>Adults with type 2 diabetes mellitus</li> </ul>	2400 mg AGE powder daily for 1 year	Left ventricular myocardial mass 1.4% ↓	1. Hutchins E, et al. Exp Ther Med. 2020;19(2):1468-1471.
	<ul style="list-style-type: none"> <li>n=66 (Kyolic n=37; placebo n=29)</li> <li>Adults with type 2 diabetes mellitus</li> </ul>	2400 mg AGE powder daily for 1 year	Low attenuation plaque 86% ↓	2. Shaikh K, et al. Exp Ther Med. 2020;19(2):1457-1461.
	<ul style="list-style-type: none"> <li>n=55 (Kyolic n=27; placebo n=28)</li> <li>Adults with metabolic syndrome</li> </ul>	2400 mg AGE powder daily for 1 year	Low attenuation plaque 20% ↓	3. Matsumoto S, et al. J Nutr. 2016;146(2):427S-432S.
<b>Vascular Function &amp; Circulation</b>	<ul style="list-style-type: none"> <li>n=28</li> <li>With cardiovascular risk factors</li> </ul>	2400 mg AGE powder as a single administration	<ul style="list-style-type: none"> <li>Upslope of tissue oxygen saturation (StO<sub>2</sub>) ↑</li> <li>Systolic blood pressure ↓</li> </ul>	4. Leitão R, et al. Eur J Nutr. 2022;67(1):3357-3366.
	<ul style="list-style-type: none"> <li>n=93 (Kyolic n=46; placebo n=47)</li> <li>Adults with glycated hemoglobin (HbA1c) &lt; 8.0 and stable HbA1c level for 6 months, Framingham risk score &gt; 10 and CAC score &gt; 10 assessed with cardiac CT scan</li> </ul>	2400 mg AGE powder daily for 1 year	Post occlusive reactive hyperemia (PORH) 21.6% ↑; cutaneous vascular conductance (CVC) 21.4% ↑	5. Lindstedt S, et al. Int Wound J. 2021;18(5):681-691.
	<ul style="list-style-type: none"> <li>n=88 (Kyolic n=44; placebo n=44)</li> <li>Patients with type 2 diabetes mellitus</li> </ul>	2400 mg AGE powder daily for 3 months	Cardio-ankle vascular index (CAVI) 8% ↓	6. Hamal S, et al. Exp Ther Med. 2020;19(2):1485-1489.
	<ul style="list-style-type: none"> <li>n=122 (Kyolic n=60; placebo n=62)</li> <li>Framingham risk score ≥ 10</li> </ul>	2400 mg AGE powder daily for 1 year	Cutaneous microcirculation 24% ↑	7. Wlosinska M, et al. Int Wound J. 2019;16(6):1487-1493.
	<ul style="list-style-type: none"> <li>n=30 (Kyolic n=15; placebo n=15)</li> </ul>	2400 mg AGE powder daily for 2 weeks	Flow mediated dilation 44% ↑	8. Williams MJA, et al. Phytother Res. 2005;19(4):314-319.

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# Metabolic Code<sup>®</sup> KYOLIC<sup>®</sup>+

## Supports Circulatory Function and Overall Heart Health\*

### Kyolic<sup>®</sup> Aged Garlic Extract<sup>™</sup> Clinical Studies

	Subjects	Dose & Duration	Results*	Publication(s)
<b>Blood Pressure</b>	<ul style="list-style-type: none"> <li>n=49 (Kyolic n=23; placebo n=26)</li> <li>Patients with uncontrolled hypertension (SBP <math>\geq</math> 140 mmHg or DBP <math>\geq</math> 90 mmHg)</li> </ul>	1200 mg AGE powder daily for 12 weeks	<ul style="list-style-type: none"> <li>Systolic 9% <math>\downarrow</math></li> <li>Diastolic 11% <math>\downarrow</math></li> </ul>	9. Ried K, et al. Front Nutr. 2018;5:122.
	<ul style="list-style-type: none"> <li>n=88</li> <li>Patients with uncontrolled hypertension (SBP <math>\geq</math> 140 mmHg or DBP <math>\geq</math> 90 mmHg)</li> </ul>	1200 mg AGE powder daily for 12 weeks	Systolic blood pressure 4% $\downarrow$	10. Ried K, et al. Integr Blood Press Control. 2016;9:9-21.
	<ul style="list-style-type: none"> <li>n=79 (Kyolic 240 mg: n=21; 480 mg: n=20; 960 mg n=19; placebo n=19)</li> <li>Patients with uncontrolled hypertension (SBP <math>\geq</math> 140 mmHg or DBP <math>\geq</math> 90 mmHg) on anti-hypertensive medication</li> </ul>	240 mg, 480 mg, or 960 mg AGE powder daily for 12 weeks	Systolic blood pressure 8% $\downarrow$ (2 capsules)	11. Ried K, et al. Eur J Clin Nutr. 2013;67(2):64-70.
	<ul style="list-style-type: none"> <li>n=50 (Kyolic n=25; placebo n=25), SBP <math>\geq</math> 140 n=22 (Kyolic n=12; placebo n=10)</li> <li>Patients with uncontrolled hypertension (SBP <math>\geq</math> 140 mmHg or DBP <math>\geq</math> 90 mmHg) on anti-hypertensive medication</li> </ul>	960 mg AGE powder daily for 12 weeks	Systolic blood pressure 6% $\downarrow$	12. Ried K, et al. Maturitas. 2010;67(2):144-150.
<b>Oxidized LDL Cholesterol</b>	<ul style="list-style-type: none"> <li>n=9 (Kyolic n=3; raw garlic n=3; DL-<math>\alpha</math>-tocopherol acetate n=3)</li> </ul>	2400 mg AGE powder daily for 1 week	Resistance to LDL oxidation 37%	13. Munday JS, et al. Atherosclerosis. 1999;143(3):399-404.

### MegaNatural-BP<sup>®</sup> Grape Seed Extract

	Subjects	Dose & Duration	Results*	Publication(s)
<b>Blood Pressure</b>	<ul style="list-style-type: none"> <li>n=70 (MegaNatural-BP n=35; placebo n=35)</li> <li>Adults with systolic blood pressure between 120 and 159 mmHg</li> </ul>	300 mg GSE daily for 8 weeks	<ul style="list-style-type: none"> <li>Systolic 3 mmHg <math>\downarrow</math></li> <li>Diastolic 1.4 mmHg <math>\downarrow</math></li> </ul>	14. Ras RT, et al. Br J Nutr. 2013;110(12):2234-41.

### Kyolic<sup>®</sup> Aged Garlic Extract<sup>™</sup> Related Studies\*

<p><u>Coronary Artery Calcification</u></p> <p>15. Budoff MJ, et al. Prev Med. 2004;39(5):985-91. 16. Budoff M. J Nutr. 2006;136(3 Suppl):741S-4S.</p> <p><u>Blood Pressure</u></p> <p>17. Reid K, et al. Maturitas. 2010;67(2):144-50.</p> <p><u>Homocysteine</u></p> <p>18. Weiss N, et al. J Nutr. 2006;136(3 Suppl):750S-4S.</p> <p><u>Oxidative Stress</u></p> <p>19. Dillon SA, et al. J Nutr. 2002;132(2):167-71. 20. Kimoto R, et al. Hokkaido J Sports Med Sci. 2005;10:17-26.</p>	<p><u>Cholesterol, Vessel Function and Circulation</u></p> <p>21. Lau BHS, et al. Nutr Res. 1987;7:139-49. 22. Steiner M, et al. Shiyaku to Rinsho (New Drug Clin). 1996;45(3):456-66. 23. Steiner M, et al. Am J Clin Nutr. 1996;64(6):866-70. 24. Yeh YY, et al. 1997. In: Food Factors for Cancer Prevention. Ohigashi H, Osawa T, et al. (eds). Springer-Verlag Tokyo, pp. 226-30. 25. Yeh YY and Liu L. J Nutr. 2001;131(3S):989S-93S. 26. Macan H, et al. J Nutr. 2006;136(3 Suppl):793S-5S. 27. Okuhara T. Jpn Pharmacol Therapeut. 1994;22(8):3695-701. 28. Steiner M, Lin RS. J Cardiovasc Pharmacol. 1996;31(6):904-8. 29. Rahman K. Billington D. J Nutr. 2000;130(11):2662-5.</p>
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