

# EFA-Sirt Supreme™

Because Healthy Aging Requires  
Healthy Arteries and a Healthy Heart



Following several years of research and clinical evaluations, Dr. Mark Houston, Associate Clinical Professor of Medicine at Vanderbilt Medical School and Director of Hypertension Institute and Vascular Biology in Nashville, in conjunction with Biotics Research Corporation, has developed a unique Essential Fatty Acid supplement.

**EFA-Sirt Supreme™** supplies a unique, highly concentrated essential fatty acid blend, providing a extremely effective relative combination of EPA, DHA and GLA, with all natural mixed tocopherols, specially formulated to be high in  $\gamma$  (gamma)-Tocopherol.

## *Why do your patients need EFA-Sirt Supreme™?*

The unique composition of **EFA-Sirt Supreme™** provides a balance of key nutrients that current research has shown to support healthy cardiovascular function.

A large amount of supportive scientific research shows that the consumption of Eicosapentaenoic acid (EPA) and Docosahexaenoic acid (DHA) Omega-3 fatty acids may reduce the risk of coronary heart disease.

**Omega-3 fatty acids** (FA) have been shown to affect platelet aggregation, blood viscosity, plasma levels of fibrinogen, PF4 and beta-thromboglobulin and capillary flow. These effects are believed to be functions of membrane fluidity. Omega-3 fatty acids support healthy blood lipid profiles, normal healthy blood pressure, stimulate Nitric Oxide (NO) and support healthy, normal blood sugar and insulin levels. Omega-3 fatty acids help to suppress ACE, TGA beta, SREBP and function as PPAR agonists. Additionally, Omega-3 fatty acid supplementation increases FA oxidation, which research suggests helps to decrease adipose tissue and serves to improve endothelial function.



To place your order for **EFA-Sirt Supreme™** or for additional information contact us:

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**BIOTICS**  
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“The Best of Science and Nature”  
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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.

**EPA-derived eicosanoids** reduce the production of proinflammatory eicosanoids such as LT-B4, PAF, and cytokines such as TNF- $\alpha$  and IL-1. Evidence suggests that EPA must be incorporated into cell membrane phospholipids for its beneficial effects on eicosanoid metabolism to be realized.

**DHA** is not only essential for neural function, it is also an important component of cell membranes and supports normal healthy blood pressure. DHA generally appears to improve cell membrane function via improved receptor function and signal transduction. DHA is converted by several mechanisms into docosatrienes and resolvins, which have anti-inflammatory properties. The activity may very well be due to the fatty acids effects modifying genetic expression, according to recent research.

**Gamma linolenic acid (GLA)**, the good Omega-6 fatty acid, is elongated to DGLA, the biologically active form from which eicosanoids are derived. DGLA metabolites reduce the formation of the arachidonate-derived prostaglandins, leukotrienes, platelet-activating factors and supports normal healthy blood pressure. DGLA reduces aldosterone, sympathetic tone and RAAS activity. Low levels of DGLA are associated with increased cardiac risk.

**Gamma Tocopherol ( $\gamma$ -Tocopherol)** Humans derive significant benefit from  $\gamma$ -Tocopherol, a key component of the mixed tocopherols supplied by a healthy diet high in vegetable consumption.  $\gamma$ -Tocopherol has naturietic activity, supports normal healthy glucose and insulin levels, and improves antioxidant defenses, serving as a component in minimizing cellular damage resulting from the production of radical oxygen species. Unlike  $\alpha$ -Tocopherol,  $\gamma$ -Tocopherol and its primary metabolite  $\gamma$ -CECH, have been shown to inhibit the synthesis of PGE2.

## Sirtuins and EFAs

*"Sirtuins (SIRT) deacetylate, activate and potentiate the activity of both mitochondrial and cytoplasmic acetyl CoA synthetases (ACES-1 and ACES-2). ACES is a key enzyme that produces acetyl CoA, the key molecule generated from the breakdown of carbohydrates, lipids and amino acids form acetate. EFA's and insulin also potentiate the activity of ACES and thus are additive or synergistic with SIRTs in these metabolic pathways. The EFAs, SIRTs and insulin will therefore increase FA and AA synthesis, cell membrane and receptor function, increase gluconeogenesis, simulate caloric restriction and increase life expectancy in experimental animals."*

- Dr. Mark Houston MD, MS, FACP, FAHA

Biotics Research recommends these product adjuncts: **VasculoSirt™**, **ResveraSirt-HP™**, **Lipid-Sirt™** and **CoQ-Zyme-30™**

**EFA-Sirt Supreme™**  
Another example of  
**Biotics Research Corporation**  
bringing you  
**"The Best of Science and Nature"**



EFA-Sirt Supreme™ is available in bottles of 180 capsules (#1412)

### Supplement Facts

Serving Size: 6 Capsules		Servings Per Container: 30
	Amount Per Serving	% Daily Value
Calories	80	
Calories from Fat	70	
Total Fat	7 g	11%†
Saturated Fat (not more than)	1 g	5%†
Polyunsaturated Fat (not less than)	4.5 g	*
Monounsaturated Fat (not less than)	1.5 g	*
Cholesterol	15 mg	5%†
Protein	2 g	4%
Vitamin E	50 IU	167%
d-Gamma tocopherol	216 mg	*
d-Delta tocopherol	86 mg	*
d-Alpha tocopherol	50 mg	*
d-Beta tocopherol	7 mg	*
* Daily Value not established		
† Percent Daily Values based on a 2,000 calorie diet		

**Each serving of EFA-Sirt Supreme™ supplies on average:**

GLA (Gamma-Linolenic acid) . . . . . 750 mg  
EPA (Eicosapentaenoic acid) . . . . . 900 mg  
DHA (Docosahexaenoic acid) . . . . . 600 mg

**Other ingredients:** Borage oil, concentrated fish oil, mixed tocopherol concentrate, capsule shell (gelatin, glycerin, water and carob).

Contains ingredients derived from Sardine and Anchovy.

**RECOMMENDATION:** Six (6) capsules each day as a dietary supplement or as otherwise recommended by your healthcare professional.

**KEEP OUT OF REACH OF CHILDREN**

Store in a cool, dry area.  
Sealed with an imprinted safety seal for your protection.

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