

COMPELLING COMPARISON

Juven[®] — A Blend of Arginine, Glutamine, HMB, Collagen Protein, and Micronutrients in a Therapeutic Nutrition[™] Drink Mix

Nutrient Profile	Juven [®]	Arginaid [®]	Arginaid [®] Extra	Push [®]	Clinical Issues and Comments
Key ingredients	Arginine, glutamine, HMB, collagen protein, micronutrients	Arginine	Arginine	Collagen protein	Only Juven contains 4 primary ingredients shown to do the following: support tissue building in 2 weeks. ^{1*} Help build and maintain lean body mass (LBM) in 4 weeks. ^{2†}
Number of human clinical trials with product	14	4	4	2	
Wounds					Williams et al: At 2 weeks, Juven has been clinically shown to enhance collagen formation and support tissue building at the wound site. ^{1*}
Oncology					May et al: Juven has been clinically shown to build lean body mass in 4 weeks in patients with cancer cachexia. ²
HIV					Clark et al: Juven has been shown in a clinical trial to help support lean body mass in people with AIDS related muscle wasting. ³
LBM					May et al; Clark et al: Juven is clinically shown to help build lean body mass. ^{2,3}
NPUAP Guideline Compliant	✓	✓	✓	X	

Nutrient Profile	Juven®	Arginaid®	Arginaid® Extra	Push®	Clinical Issues and Comments
cal/serving	80-95 [‡]	25	250	30	
Arginine	7g	4.5g	4.5g	0g	Juven provides over 50% more arginine and over 200% more grams of amino acids per serving than Arginaid®.
Glutamine	7g	0g	0g	0g	Only Juven combines the amino acids arginine and glutamine which are conditionally essential amino acids in times of metabolic stress, and are essential for protein synthesis, wound healing and maintaining immune function.
HMB	1.5g	0g	0g	0g	Only Juven contains HMB, which decreases muscle breakdown, supports protein synthesis and stabilizes muscle cell membranes. ^{4,5}
Collagen Protein	2.5g	0g	0g	5g	Stimulates internal collagen production increasing the rate of wound healing. ^{6,7}
Vitamin C	300mg	156mg	250mg	0g	Promotes collagen synthesis for tensile strength, modulates immune function and acts as an antioxidant. ⁸
Vitamin B12	1.2mcg	0g	1.2mcg	0g	Important in the maintenance of red blood cells. ⁸
Vitamin E	15mg	90IU	60mg	0g	Plays a role in immune response and inflammation. ⁸
Zinc	9.5mg	0g	15mg	0g	Important for skin integrity, stabilizing mucosal cell membranes and immune response. ⁸
Usage for Stage 4 Wounds	Two packets a day	Two packets a day	Two packets a day	Four packets a day	
Availability	Available in orange, fruit punch and unflavored	Orange	Orange	Pineapple	

*Collagen synthesis was significantly enhanced in healthy elderly volunteers

†in patients with cancer cachexia

‡Calories per serving vary by flavor

References: 1. Williams JZ et al. *Annals of Surgery*. 2002;3:369-75. 2. May et al. *Am J of Surgery*. 2002;183:471-9. 3. Clark et al. *J of Parenteral and Enteral Nutr*. 2000;24:133-9. 4. Wilson et al. *Nutr Metab*. 2008;5:1 5. Nissen SL. *J Nutr Biochem*. 1997; Vol 8(6): 300-311. 6. Lee SK, et al: *Adv Skin Wound Care*. 2006;19(2):92-96. 7. Sugihara F, et al: *Jpn Pharmacol Ther*. 2015;4:4:1323-28. 8. Molnar JA, *Nutrition and Wound Healing*, CRC Press 2007.

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