# Niacinamide Vitamin B-3

### DESCRIPTION

Niacinamide, provided by Douglas Laboratories®, provides 500 mg of niacinamide per capsule.

### **FUNCTIONS**

Vitamin  $B_3$  occurs naturally in the body in two forms, niacin (nicotinic acid) and niacinamide (nicotinamide). Niacinamide can be made from niacin in the body. Niacin supplementation in amounts greater than what is needed by the body may result in the niacin "flush". Niacinamide performs most of the essential biochemical functions of niacin and helps to avoid its deficiency. Large doses of niacinamide do not typically cause vasodilation or "flushing".

Vitamin  $B_3$  is a precursor to the metabolically active coenzymes, NAD (nicotinamide adenine dinucleotide) and NADP (NAD phosphate). NAD and NADP have pervasive roles in the electron-transport chain and oxidation-reduction reactions. At least 200 enzymes depend on these vitamin  $B_3$  cofactors. In vivo studies indicate niacinamide plays a key role in cellular energy and enhancement of energy-dependent cellular functions such as DNA restoration. † Independent of its functions as NAD or NADP, niacinamide may support healthy skin and joints, and the proper metabolism of glucose. †

#### INDICATIONS

Niacinamide capsules may be a useful nutritional adjunct for individuals who wish to increase their intake of niacinamide.

# **FORMULA (#7954)**

Each Capsule Contains:

Niacinamide......500 mg

# **SUGGESTED USE**

Adults take one capsule daily with meals or as directed by a healthcare professional.

### SIDE EFFECTS

No adverse side effects have been reported.

#### **STORAGE**

Store in a cool, dry place, away from direct light. Keep out of reach of children.

### REFERENCES

Ying W. Antioxid Redox Signal. 2008 Feb;10(2):179-206. Review.

Kamanna VS, Ganji SH, Kashyap ML. Int J Clin Pract. 2009 Sep;63(9):1369-77. doi: 10.1111/j.1742-1241.2009.02099.x. Review.

Surjana D, Halliday G, Damian D. Carcinogenesis [serial online]. May 2013;34(5):1144-1149.

Park J, Halliday G, Surjana D, Damian D. Photochemistry And Photobiology [serial online]. July 2010;86(4):942-948.

Chen A, Damian D. The Australasian Journal Of Dermatology [serial online]. August 2014;55(3):169-175.

Thanos S, Halliday G, Damian D. The British Journal Of Dermatology [serial online]. September 2012;167(3):631-636.

# Niacinamide Vitamin B-3

Niren NM, Torok HM. Cutis 2006; 77: 17-28.

Omidian M, Khazanee A, Feily A, et al. Saudi Journal Of Kidney Diseases And Transplantation: An Official Publication Of The Saudi Center For Organ Transplantation, Saudi Arabia [serial online]. September 2013;24(5):995-999.

Jonas WB, Rapoza CP, Blair WF. Inflamm Res. 1996 Jul;45(7):330-4.

Visalli N, Cavallo MG, Signore A, et al. Diabetes Metab Res Rev. 1999 May-Jun;15(3):181-5.

Polo V, Saibene A, Pontiroli AE. Acta Diabetol. 1998 Apr;35(1):61-4.

Greenbaum CJ, Kahn SE, Palmer JP. Diabetes. 1996 Nov;45(11):1631-4.

Pozzilli P, Browne PD, Kolb H. The Nicotinamide Trialists. Diabetes Care. 1996 Dec;19(12):1357-63.

### For more information on Niacinamide visit douglaslabs.com

† 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.

Manufactured by Douglas Laboratories 112 Technology Drive Pittsburgh, PA 15275 800-245-4440 douglaslabs.com



© 2016 Douglas Laboratories. All Rights Reserved.

DL7954-0316

2