



- Supplies a potent combination of grape-seed bioflavonoids and Poly C®
- May help retain sound cardiovascular function
- Provides a first line of defence against oxidative stress



ITEM# 133

It is an incongruity of life. We require oxygen for efficient energy production and for the function of many metabolic pathways. And yet oxygen, in a variety of chemical forms collectively known as “reactive oxygen species” (ROS), is damaging to our cells and tissues.^{1,2} Elevated exposure to ROS creates a physiological imbalance known as oxidative stress, which is also caused by free radicals.^{3,4}

Free radicals and ROS have become true enemies to our health. Every day these reactive molecules—from environmental pollution, cigarette smoke, fatty diets, and normal cellular metabolism—assault our cells.⁵⁻⁷ Dietary supplements rich in antioxidants, such as those found in PROFLAVANOL® C and PROFLAVANOL® 90, are the primary line of defence against oxidative stress.^{8,9}

PROANTHOCYANIDINS

Proanthocyanidins are one of the most potent antioxidants, and they strongly inhibit ROS. Research suggests a strong role for dietary bioflavonoids in supporting and maintaining sound cardiovascular function.¹⁰⁻¹² This originates from the observation that relatively low rates of heart disease exist in France, despite a diet high in saturated fat.¹³ This apparent “French paradox” has been attributed to the proanthocyanidins in the red wine consumed with most meals. Human clinical research has also shown that proanthocyanidins in red wine maintain healthy endothelial function^{14,15}

Proanthocyanidins have been studied extensively in Europe and in the United States. Scientifically observed and documented benefits include the following:

- Helps retain healthy capillary strength and vascular function^{16,17}
- Supports healthy immune function^{18,19}
- Increased peripheral circulation²⁰

WHY PROFLAVANOL® C AND PROFLAVANOL® 90?

With USANA's unique formulation, PROFLAVANOL C and PROFLAVANOL 90 combine the highest quality grape-seed extract with the free-radical quenching power of exclusive POLY C® (see page 36), giving you an important tool in the quest for lifelong good health.²² Laboratory studies done at USANA confirm that, when used together, these ingredients provide significantly better protection against the oxidative modification of low density lipoproteins (LDL) than would be predicted from the sum of their individual effects. Not only do proanthocyanidins neutralize free radicals, they also conserve and regenerate vitamins C and E.²¹ Both PROFLAVANOL C and PROFLAVANOL 90 offer superior antioxidant protection in a strength that's right for you.

References

1. Bland JS. J Nutr Environ Med 1995;5:255-80.
2. Halliwell B. Ann Rev Nutr 1996;16:33-50.
3. Gaziano JM. Proc Assoc Am Physicians 1999;111:2-9.
4. McKown N. Nutr Rev 1999;57:321-24.
5. Fletcher RH, Fairfield KM. JAMA 2002;287(23):3127-9.
6. Ames BN. Mutat Res 2001;475(1-2):7-20.
7. Ames BN, et al. Proc Natl Acad Sci USA 1993;90(17):7915-22.
8. Liu S, et al. Am J Clin Nutr 2000;72:922-28.
9. Michaud DS, et al. A J Clin Nutr 2000;72:990-97.
10. Dell'Agli M, et al. Cardiovasc Res 2004;63(4):593-602.
11. Folts JD. Adv Exp Med Biol 2002;505:95-111.
12. Cos P, et al. Curr Med Chem 2004;11(10):1345-59.
13. Renaud S, de Lorgeril M. Lancet 1992;339:1523-26.
14. Stoclet JC, et al. J Physiol Pharmacol 1999;50: 535-40.
15. Cuevas AM, et al. Lipids 2000;35:143-48.
16. DeWhalley CV, et al. Biochem Pharmacol 1990;39:1743-50.
17. Kakegawa , et al. Chem Pharm Bull (Tokyo) 1985;33:79-82.
18. Beylot C, Bioulac P. Gaz Med de France 1980;87(22).
19. Maffei F, et al. Arzneimittelforschung 1994;44:592-601.
20. Whitehead TP, et al. Clin Chem 1995;41:32-35.
21. Lagrue G, et al. Sem Hop Paris 1981;September:18-25.

PROFLAVANOL® C

RECOMMENDED ADULT DOSE: TAKE ONE (1) OR TWO (2) TABLETS TWICE DAILY / **DOSE RECOMMANDÉE POUR ADULTES :** PRENDRE UN (1) À DEUX (2) COMPRIMÉS DEUX FOIS PAR JOUR.

LABORATORY TESTED, QUALITY GUARANTEED. MEETS USP SPECIFICATIONS FOR POTENCY, UNIFORMITY AND DISINTEGRATION WHERE APPLICABLE. / TESTÉ EN LABORATOIRE, QUALITÉ GARANTIE. CONFORME AUX NORMES USP DE CONCENTRATION, HOMOGENÉITÉ ET DESINTEGRATION, LE CAS ÉCHÉANT.

EACH TABLET CONTAINS:		CHAQUE COMPRIMÉ CONTIENT :	
VITAMIN C (POLY C™—	100 mg	VITAMINE C (POLY C™—	
CALCIUM, POTASSIUM,		ASCORBATES DE CALCIUM,	
MAGNESIUM, AND ZINC		POTASSIUM, MAGNÉSIMUM,	
ASCORBATES)		ET ZINC)	

NON-MEDICINAL INGREDIENTS: / INGRÉDIENTS NON MÉDICINAUX: MICROCRYSTALLINE CELLULOSE, GRAPE SEED EXTRACT, CROSCARMELLOSE SODIUM, PREGELATINIZED STARCH, ASCORBYL PALMITATE, HYDROXYPROPYL METHYLCELLULOSE, COLLOIDAL SILICON DIOXIDE / CELLULOSE MICROCRYSTALLINE, EXTRAIT DE PÉPIN DE RAISIN, CROSCARMELLOSE SODIQUE, AMIDON PRÉGÉLATINISÉ, PALMITATE D'ASCORBYLE, HYDROXYPROPYLMETHYLCELLULOSE, DIOXYDE DE SILICIUM COLLOÏDAL.

PROFLAVANOL® 90

RECOMMENDED USE: FOR ANTIOXIDANT SUPPORT TO NEUTRALIZE FREE RADICALS AND PROMOTE LONG-TERM HEALTH. / **UTILISATION RECOMMANDÉE :** MOYEN DE DÉFENSE CONTRE L'OXYDATION NEUTRALISANT LES RADICAUX LIBRES ET FAVORISANT LA SANTÉ À LONG TERME.

DIRECTIONS: ADULTS, TAKE 2 TABLETS DAILY WITH MEALS. / **MODE D'EMPLOI :** ADULTES, PRENDRE 2 COMPRIMÉS PAR JOUR AVEC LES REPAS.

EACH TABLET CONTAINS:		CHAQUE COMPRIMÉ CONTIENT :	
MEDICINAL INGREDIENTS:		INGRÉDIENTS MÉDICINAUX	
VITAMIN C (ASCORBATES OF CALCIUM,	300 mg	VITAMINE C (ASCORBATES DE CALCIUM,	
MAGNESIUM, POTASSIUM AND ZINC)		MAGNÉSIMUM, ET ZINC)	
GRAPE SEED EXTRACT (VITIS VINIFERA)	90 mg	EXTRAIT DE PÉPIN DE RAISIN (VITIS VINIFERA)	

NON-MEDICINAL INGREDIENTS: MICROCRYSTALLINE CELLULOSE, CARBOXYMETHYLCELLULOSE, STARCH, DEXTRIN, SILICON DIOXIDE, DEXTROSE, SOY LECITHIN, SODIUM CITRATE. / **INGRÉDIENTS NON-MÉDICINAUX :** CELLULOSE MICROCRYSTALLINE, CARBOXYMETHYLCELLULOSE, AMIDON, DEXTRINE, DIOXYDE DE SILICIUM, DEXTROSE, LÉCITHINE DE SOJA, CITRATE DE SODIUM.

LABORATORY TESTED, QUALITY GUARANTEED. MEETS USP SPECIFICATIONS FOR POTENCY, UNIFORMITY AND DISINTEGRATION WHERE APPLICABLE. / TESTÉ EN LABORATOIRE, QUALITÉ GARANTIE. CONFORME AUX NORMES USP DE CONCENTRATION, HOMOGENÉITÉ ET DE DESINTEGRATION, LE CAS ÉCHÉANT.



ITEM# 132