

Floater
counteracted effectively*

VitroCap® N

Tested Efficacy: ^{1, 2, 3, 4, 5, 6}
success rate >60%-80%



1 capsul daily
Contains grape seed and citrus fruit extracts, vitamin C, zinc and L-lysine
Food supplement designed to support eye health

- 1) Ankamah E, Green-Gomez M, Roche W, Ng E, Welge-Lüssen U, Kaercher Th, and Nolan JM. Dietary intervention with a targeted micronutrient formulation reduces the visual discomfort associated with vitreous degeneration, *Translational Vision Science and Technology (TVST)* 2021; 10(12):19, <https://doi.org/10.1167/tvst.10.12.19>
- 2) Welge-Lüssen U, et al. *Der Ophthalmologe, Suppl 2 DOG Do03-04*, 2019, S30
- 3) Veryasova, A.G. et al. *Ophthalmology journal (rus)* 2019, 12, 67-72.
- 4) Sobol M, et al. *Journal of Alzheimer's Disease* 64 (2018), (BON 030, S. 16-17)
- 5) Marchanka L, et al. *Ophthal East Europe* 2015;25:123-128
- 6) Gerste RD, Kaercher Th. *Pharma Report, ZPA 344*; April 2013

Information intended for health care professionals only

Observational study with 463 subjects confirms high success rate *⁴

Study design

- 463 patients with vitreous floaters (VF)
- Mean age of 61.1 ± 14.5 (SD) years
- VF suffering was confirmed during ophthalmic exams. All participants were free from acute or chronic eye and systemic diseases
- Questionnaires for the assessment of quality of vision were applied at baseline and after 3 months of supplementation with 1 capsule per day. (Scale from 0 to 4; no disturbances → extremely disturbing)

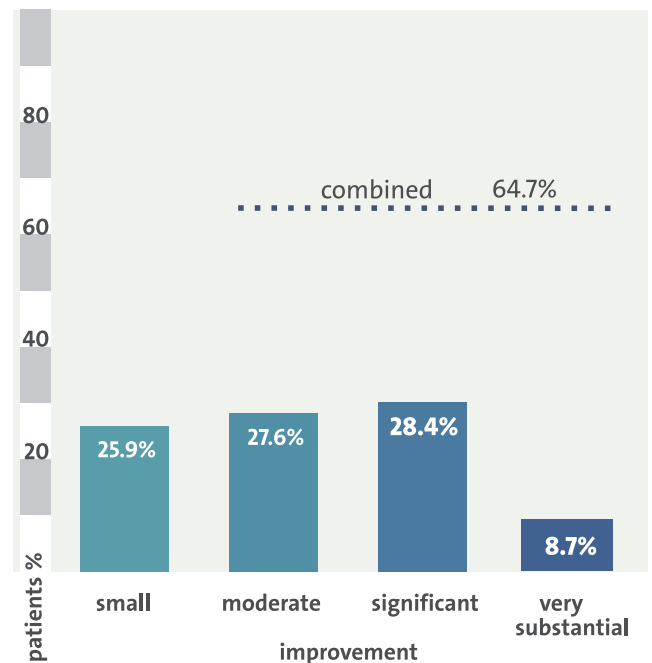
Supplementation

1 capsule with L-lysine (125mg), hesperidin (60mg), proanthocyanidins (24 mg), vitamin C (40mg) and zinc (5mg) daily for 3 months

Results

At baseline: 90% of patients reported visual disturbances.

After 3 months: significant improvement in 90.6% of patients ($p < 0.001$)



- Supplementation of VF-subjects shows relevant relief of floater disturbances.
- The findings confirm supplementation success rates of other investigations *^{1,2,3,5,6} on a larger patient number scale.
- The subjectively perceived improvement of vision quality appears to be greater in younger patients.

Recommended intake:

Take one VitroCap®N capsule daily with water and after food.

Don't chew.

Application duration:

The daily intake of 1 capsule should initially be done for a minimum of 3 to 6 months and can then be prolonged individually until the patient experiences the desired relief of symptoms.

Ingredients:

L-lysine hydrochloride, citrus fruit extract (Citrus aurantium L.), capsule shell (coating agent: hypromellose, colouring food: spirulina and apple concentrate, invert sugar), filler: microcrystalline cellulose, L-ascorbic acid (vitamin C); grape seed extract (Vitis vinifera L.), zinc oxide, anticaking agents: magnesium salts of fatty acids, silicon dioxide.

1 capsule daily	L-Lysin	vitamin C	zinc	grape seed-extract	citrus flavonoids (hesperidin)
	125 mg	40 mg	5 mg	26.3 mg	100 mg (60 mg)

Food supplement designed to support eye health



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1. Sulochana KN, Ramprasad S, Coral K et al. Glycation and glycoxidation studies in vitro on isolated human vitreous collagen. *Med Sci Monit.* 2003; 9: BR220-224
2. Urios P, Grigorova-Borsos AM, Sternberg M. Flavonoids inhibit the formation of the cross-linking AGE pentosidine in collagen incubated with glucose, according to their structure. *Eur J Nutr.* 2007; 46:139-146
3. Lutomski J, Mscisz A. Znaczenie prewencyjne zwiaskow polifenolowych zawartych w winogronach. *Postepy Fitoterapii* 2003; 1:6
4. Maffei Facino R, Carini M, Aldini G, et al. Free radicals scavenging action and anti-enzyme activities of procyanidines from *Vitis vinifera*. A mechanism for their capillary protective action. *Arzneimittelforschung.* 1994; 44: 592-601
5. Shui YB, Holekamp NM, Kramer BC, et al. The gel state of the vitreous and ascorbate-dependent oxygen consumption: relation-ship to the etiology of nuclear cataracts. *Arch Ophthalmol.* 2009; 127: 475-482
6. DiMattio J. A comparative study of ascorbic acid entry into aqueous and vitreous humors of the rat and guinea pig. *Invest Ophthalmol Vis Sci.* 1989; 30: 2320-2331
7. Konerirajapuram, N.S.; Coral, K.; Punitham, R.; Sharma, T.; Kasinathan, N.; Sivaramakrishnan, R. Trace elements iron, copper and zinc in vitreous of patients with various vitreoretinal diseases. *Indian J. Ophthalmol.* 2004, 52, 145–148. [PubMed]
8. Marreiro DD, Cruz KJ, Morais JB, Beserra JB, Severo JS, de Oliveira AR. Zinc and Oxidative Stress: Current Mechanisms. *Antioxidants (Basel).* 2017;6(2):24.
9. Traber, M.G.; Stevens, J.F. Vitamins C and E: Beneficial effects from a mechanistic perspective. *Free Radic. Biol. Med.* 2011, 51, 1000–1013 Published 2017 Mar 29. doi:10.3390/antiox6020024
10. Awasthi S, Saraswathi NT. Carbonyl scavenging and chemical chaperon like function of essential amino acids attenuates non-enzymatic glycation of albumin. *RSC Adv.* 2016;6:24557-24564.
11. Kheirouri S, Alizadeh M, Maleki V. Zinc against advanced glycation end products. *Clin Exp Pharmacol Physiol.* 2018; 45:491-498.

Mode of action of dietary support for the vitreous body:

1. Inhibition of the glycation of collagen fibres

- L-Lysine inhibits the glycation by 76%*¹, also acts as a chemical chaperone, a protein required for the proper folding and/or assembly of another protein or protein complex.*¹⁰

- Flavonoids (Hesperidin) significantly inhibit the collagen fibres from forming a meshwork.*²

- Zinc has shown antiglycation properties.*¹¹

2. Modulation of the degrading enzymes of hyaluronic acid and collagen

- Procyanidines from grape seed extract (*Vitis vinifera* L.) modulate the activity of collagenase, hyaluronidase and elastase.*^{3,4}

3. Inhibition of the oxidative damage of the collagen fibres

- Ascorbic acid and procyanidine are powerful antioxidants in an aqueous environment.*^{4, 5, 6, 9}

- Zinc exert its antioxidative effects by protecting sulfhydryl groups from oxidation.*⁷

- Zinc acts as a co-factor for important enzymes involved in the proper functioning of the antioxidant defense system.*⁸