

## **Can-C Eyedrops Augentropfen N-ACETYL-CARNOSIN**

**Can C ist ein natürliches Antioxidans zur Bekämpfung von senilen Katarakten und anderen Erkrankungen des alternden Auges.**

In the East, particularly in Russia, over the last several years, there has been research into a special analogue of the di-peptide carnosine. Im Osten, vor allem in Russland, wurde in den letzten Jahren mit großem Erfolg das Di-Peptid Carnosin erforscht. Eine besondere Form ist bekannt als N-Acetyl-Carnosin und es hat sich als sehr effektiv bei der Behandlung von Grauem Star herausgestellt.

Die senile Katarakt Operation (Grauer Star) ist die am häufigsten durchgeführte Operation in der Welt von heute. Es gibt 1.350.000 Augen-Operationen pro Jahr, allein in den USA, und obwohl die Operation des grauen Stars allgemein als eine der sichersten Operationen anerkannt ist, gibt es doch zum Teil bedeutende Komplikationen. Zum Beispiel entwickeln in den Vereinigten Staaten 30% bis 50% aller Patienten mit Katarakt Extraktion eine Eintrübung der hinteren Linsenkapsel innerhalb von zwei Jahren, was weitere Laser-Behandlungen notwendig macht. 2% entwickeln schwerwiegende Komplikationen als Folge der Katarakt Chirurgie.

N-Acetyl-Carnosin Augentropfen werden für die alternative Behandlung ohne Operation eingesetzt. Die Patienten behalten ihre natürliche Linse anstatt eine künstliche eingesetzt zu bekommen.

Die Statistiken zeigen, mit N-Acetyl-Carnosin Augentropfen innerhalb sechs Monaten, zweimal täglich angewendet, bei allen Patienten mit Altersstar, folgende Ergebnisse:  
88,9% hatten eine Verbesserung der Licht-Empfindlichkeit.  
41,5% hatten eine Verbesserung der Durchlässigkeit der Linse.  
90% hatten eine Verbesserung der Sehschärfe.

### **Verwendung von N-Acetyl-Carnosin**

N-Acetyl-Carnosin Augentropfen haben bereits innerhalb von nur 1 Monat messbare Auswirkungen gezeigt. Für eine optimale Wirksamkeit wird jedoch empfohlen, N-Acetyl-Carnosin Augentropfen nicht weniger als drei bis fünf Monate einzusetzen.

### **Weitere Vorteile**

Nicht nur bei Altersstar, sondern auch bei folgenden Störungen, können N-Acetyl-Carnosin Augentropfen positive Ergebnisse bringen:

- 1. Altersweitsichtigkeit**
- 2. primäres Offenwinkelglaukom**
- 3. nach chirurgischen Eingriffen.**
- 4. Computer Vision Syndrom (Beschwerden bei langer Bildschirmarbeit)**
- 5. bei hohen Augen-Belastungen**
- 6. Augen-Entzündungen**
- 7. Sehstörungen**
- 8. Trockenes Auge Syndrom.**
- 9. Retinale Erkrankungen**
- 10. Linsentrübungen und -veränderungen.**

**11. Komplikationen von Diabetes mellitus und anderen systemischen Krankheiten.**

**12. Probleme bei Kontaktlinsen-Pflegemittel, vor allem mit weichen Kontaktlinsen.**

**Dosierung:**

Vorbeugend: 1 Tropfen pro Tag in einem Zeitraum von 6 Monaten.

Zur Behandlung von senilen Katarakten: ein oder zwei Tropfen zweimal täglich für einen Zeitraum von 6 Monaten.

Nach einer Verbesserung oder Heilung wird empfohlen, N-Acetyl-Carnosin Augentropfen weiterhin einzusetzen, um ein erneutes Auftreten zu verhindern.

**Bisher wurden** keine ernsthaften Nebenwirkungen oder Kontraindikationen in keiner der klinischen Studien festgestellt.

Das Produkt kann bei Raumtemperatur gelagert werden. Sobald jedoch ein Fläschchen geöffnet wird, ist es empfehlenswert, es in einem Kühlschrank für max. 21 Tage zu lagern.

Ungeöffnete Fläschchen haben eine Haltbarkeit von bis zu zwei Jahren ab dem Zeitpunkt der Herstellung.

## English

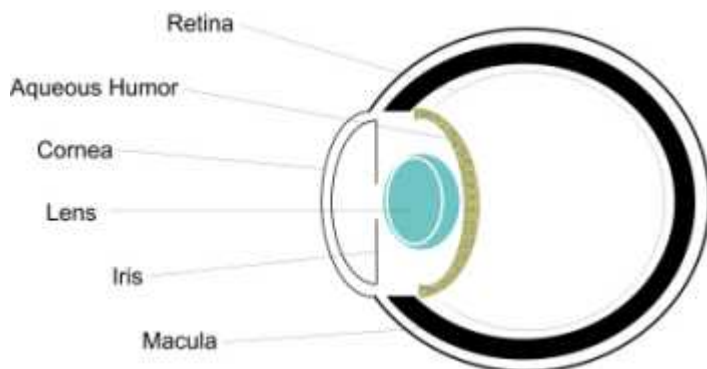
Senile cataract is the most commonly performed surgical operation in the world today; some 26,000 people each year, in the United States alone are diagnosed with senile cataract each day. There are 1.35 million eye operations each year in the USA and 2% of them (or 27,000 individuals) develop serious complications as a result of cataract surgery.

Can-C eye-drops have been shown to help reduce, reverse and slow the occurrence of senile cataract.

Senile cataract is caused by the nuclear matter of the elderly human lens hardening and taking on a yellowish/brown color. Once this occurs there is obvious vision impairment and deterioration.

This hardening and discoloration of the lens is the result of lifelong cross-linking (or glycosylation), of the lens proteins with ascorbate. This persists in the aqueous humor at high concentrations, due to the kynurenine derivatives, and takes place due to the low availability of natural defenses in the form of anti-oxidants, (which decline with advancing age).

Can-C contains N-acetylcarnosine which is a di-peptide, (that's two amino acids linked together). The particularly pure form is known as n-alpha-acetylcarnosine.



As you can imagine this is a complex subject. But essentially, N-acetylcarnosine is a "carrier" for the di-peptide L-carnosine into the aqueous humor of the eye, (this is the fluid area surrounding the lens).

It is here, that the substance becomes most active in its ability to basically act, as a natural and comprehensive anti-oxidant. Once N-acetylcarnosine has delivered L-carnosine safely through into the aqueous humor, the L-carnosine itself is flushed out of the eye via the canal of schlemm, and once into the bloodstream, it is broken down by carnosinase and excreted. N-acetylcarnosine is acting as a time release version of carnosine resistant to hydrolysis with carnosinases.

The major role of N-acetylcarnosine and L-carnosine is their facility to act in the biological system as universal antioxidants. They possess the ability to protect cells from oxidative stress, both in the lipid phase of cellular membranes and in the aqueous environment. L-carnosine is able to reduce the content of lipid peroxidation products in the peroxidized lens fiber cells plasma membranes, and to repair their structure accordingly. It is the only known anti-oxidant able to protect structural proteins of the lens/alpha-crystalline, from the free-radical induced oxidation process.

The statistics in the human trials show that Can-C eye-drops applied for 6-months, (twice daily into the eye), in patients all suffering from senile cataract, had the following results:

1. 88.9% had an improvement of glare sensitivity.
2. 41.5% had an improvement of the transmissivity of the lens.
3. 90% had an improvement in visual acuity.

### **Animal Trials**

The testing of various anti-glycation agents over nearly a decade led a Russian research team to the development of n-alpha-acetylcarnosine as a delivery system for the natural eye anti-oxidant of L-carnosine. Once laboratory testing was passed, the next stage began to test the n-acetylcarnosine eye-drops in the eyes of animals, (specifically canines and rabbits). These studies produced remarkably fast results in the improvement of clarity, glare sensitivity and overall vision for the animals involved. Furthermore, no serious side effects were noted and the beneficial affects were sustainable. Unsurprisingly, these positive results in animals led to the studies being continued in humans.

### **Human Trials**

Carnosine eye-drops were used in a clinical trial to treat 96 patients aged 60 and above. All the patients had senile cataract in various degrees of maturity. The duration of the disease in these patients ranged between 2 and 21 years. The patients instilled 1 or 2 drops into each eye 3 or 4 times a day, for a period of 3 to 6 months.

The results showed that there was a pronounced effect on senile cataract, the rate was 100% (i.e. all patients experienced an improvement). For the more mature senile cataract the effective rate was still an extremely impressive 80%. Importantly, it was also noted that there were no side effects in any of the cases. Another Russian study was designed to document and quantify the changes in lens clarity over a 6 to 24 month period. Their average age was 65 and all suffered from senile cataract of a minimal to an advanced opacification.

The patients received either a 1% solution of N-acetylcarnosine eye-drops or a placebo as 2-drops twice a day into each eye. The results at 6 months were impressive; 88.9% of all eyes treated with N-acetylcarnosine had an improvement of glare sensitivity. Furthermore, 90% of the eyes treated with N-acetylcarnosine showed an improvement in visual acuity. In contrast, there was little change in the eye quality of the placebo group at 6 months and the placebo group also experienced a gradual deterioration at 12 to 24 months.

Another study evaluated patients who had various degrees of eyesight impairment but who did not have the symptoms of cataract. After a course of treatment ranging from 2 to 6 months the conclusion was that the eye-drops alleviated eye tiredness and continued to improve eyesight (i.e. there was more clear vision). This is an indicator that the eye-drops have a value both for preventative purposes as well as medical applications.

[For further technical information click here.](#)

## **References**

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The Can-C itself is produced by a pharmaceutical company and then packaged by an approved ophthalmic facility. The product is housed within a labeled and printed 6.4cm x 4.4cm x 3.2cm box. Each box contains 2 x 5ml re-sealable vials, along with an insert that explains how the vials are opened, used and sealed etc.

It is recommended that for maximum efficacy, administration be continued for a period of not less than 3-5 months. As most of the clinical trials have been measured at 3 and 6 month periods, a period of 6-months should be considered.

Treatment doses are 2 drops, once or twice a day. Once an individual 5ml vial is opened it should be stored in a fridge and used within 30-days. Each 5ml vial contains approximately 80-drops; this means that each 5ml vial will last for approximately 20 days at 4-drops per day. As each box contains 2x 5ml vials, each package can last between 40 days.

Unopened vials can be stored at room temperature, but it is recommended, that for long-term storage the vials should be kept in a fridge at 2 to 8 degrees Celsius. We do not recommend freezing. Note that unopened vials are good for up to 24 months, from the date of manufacture.

Can-C may be required on a regular basis to help maintain the eye's natural anti-oxidant defences and therefore help to prevent a re-appearance of senile cataract and other eye degenerative disorders. As a preventative measure, 2-drops into each eye once a day with frequent breaks may be a suitable on-going regime.

As usual with most treatments, the earlier one starts the better the results that can be expected. In the clinical trials, persons who had cataracts less than 7-years have the fastest and greatest results. Persons with cataract from 7-15 years still have good results. Only persons who had maintained cataracts for more than 15-years have the least results, although even then they still managed to obtain improvements.

Can-C must NOT be used orally. Until more is understood about N-acetylcarnosine and its oral use in humans, this route of administration must be avoided. However, Can-C has been shown to be safe and effective for humans when used as an eye-drop or as an intra-nasal spray.

With the correct material and formula, in human clinical trials, there have been no reported side effects or contraindications, even when used everyday for up-to 2-years.

N-acetylcarnosine is a temperamental molecule and other ingredients can impede its action and even break it down, therefore reducing its effectiveness. As such, combinations of "other" ingredients with N-acetylcarnosine shouldn't be taken for granted, and should not be automatically added without further investigation and research etc. For example, hydrophobic compounds such as vitamin A and vitamin E have branched hydrocarbon skeletons that inhibit the activity of N-acetylcarnosine, particularly in the cornea and conjunctiva of the eye. Recent evidence with vitamin E, shows us that its combination with N-acetylated compounds abolished the potential of the entire mixture.

## **Success Stories**

"I have been taking the Can-C eye-drops since last September. I had my vision checked on January 2. My vision has improved four times and my lens is clearing. I will get my vision checked again in July. I will keep you informed of my progress. Can-C drops have been a godsend to me, thank you."

B.K., Illinois B.K., Illinois

"I just wanted you to know that the improvement in my vision is amazing. I had got to the point where I could no longer drive due to haziness from my cataracts, and now I feel very secure and am able to see almost as well as before my cataracts was diagnosed. Also I have not noticed any kind of side-effects. I just wanted to tell you how happy I am and that I am definitely recommending Can-C eye-drops to all my friends with similar problems! If you need me for any referrals or statistics I would be happy to help! Please keep on with the great work!"

A.B., Chicago A.B., Chicago

"I've been using Can-C for a month and I've noticed an improvement in my vision, particularly less glare. I intend to keep using it and let you know the results, many thanks."

P.M.J., Sydney P.M.J., Sydney

"I want to tell you about my experiences with the special Russian eye-drops. At first I didn't think there were any real differences, but I persisted in using the drops twice a day in the affected eye. Now after about 3-months I believe that there are significant changes to my vision. It's been a fairly gradual thing which may explain why I didn't appreciate any changes early on, but now it's obvious to me that my eyesight has improved. The changes are slower than I anticipated, but I for one am sold on the drops!"

C.B.S., Hong Kong C.B.S., Hong Kong

"The Can-C eye-drops have improved my mother's eyesight over the past 3 weeks. It certainly is amazing."

J.C., Texas J.C., Texas

"As a medical doctor, at first I was dubious of such a breakthrough, but I assisted my mother-in-law with the application. The results have been so impressive I am now contacting you with a view to a wholesale enquiry."

D.S., California D.S., Kalifornien, USA

"My ophthalmic physician wants to know what I have been doing! He hasn't seen anything like it before in 20-years of assisting people with cataracts!"

K.L., New York K.L., New York

"Congratulations, these eye-drops are the real McCoy, they're great!"

G.K., Washington G.K., Washington

"I took some other drops for 4-months that did nothing. I've only been taking Can-C eye-drops for 4-weeks and can already see the difference."

A.M., Canada A.M., Kanada

"I can't express the delight I feel at having to avoid surgery, your eye-drops have given me great hope for the future."

M.J.K., Denver M.J.K., Denver

"I have used Can-C eye-drops at a rate of approximately 2 drops /day in each eye since April 22, 2003 to date (July 31, 2003). I was suffering from Brunescant Cataracts and unrecognized Night Blindness in both eyes.

1). My night vision has returned, and I again feel safe driving at night. Meine Nacht Vision wieder, und ich wieder fühlen sicheres Fahren bei Nacht. The halo around bright lights is very much diminished; some small "sparkles" remain, but do not present any problem for me.

2). I have found no negative side -effects.

3). My vision has improved by approximately "2 chart lines" and I can again read highway

signs without glasses.”  
R.L., Colorado R.L., Colorado

“I have purchased Can-C eye-drops for my mother’s senile cataracts. After only a few months she feels she can see better.”  
J.H., University of Northern Colorado J.H., Universität von Northern Colorado

“Most of my patients are using it as prevention; some started it as a cure for the beginning of cataracts.  
D.K., New York D.K., New York

“For several years I have suffered from Uveitis and Macula Odema in one eye. The Macula Odema has settled but the Uveitis is only controlled with Corticosteroid eye drops. I tried to gradually reduce the corticosteroid drops and replace them with the carnosine, but this was not entirely successful and after a visit to the Specialist I am back using the corticosteroid drops. I didn't know whether it would be of any value to use both at the same time. What the Carnosine did do was reduce the pressure and as both my parents had glaucoma I am very conscious of the need to keep the pressure down. So I may need to use the carnosine for that in the future and of course I realize that extended use of the steroid drops can cause cataracts.”  
J.K., New South Wales, Australia J.K., New South Wales, Australien

I used the Can-C drops for 3 or 4 months. I certainly noticed clearer vision (I have cataracts). I stopped using the drops and vision became fuzzy again, so I restarted the drops about two weeks ago. I definitely will continue to use them and plan to re-order when necessary. The results were good, but I now know that I need to use them on an ongoing basis. Thank you,  
E.K., Utah E.K., Utah

I have been using Can-C for about three months now and have noticed a slight improvement in my vision. Also I am not waking in the mornings with gummed up and watery eyes as was the case previously. I should know more after my next eye examination.  
J.E., Australia J.E., Australien