



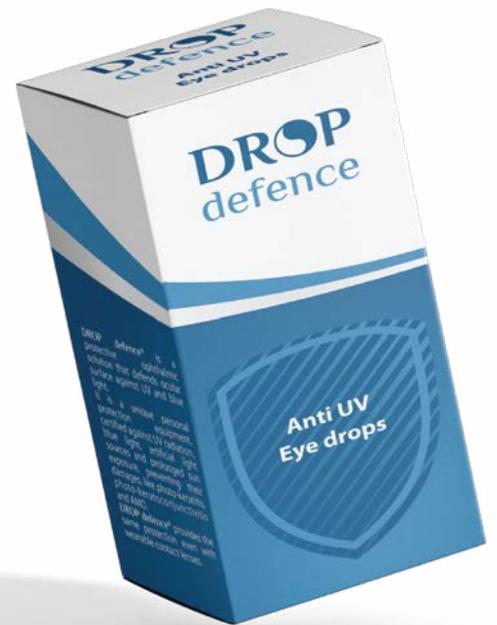
DROP defence

Anti UV eye drops

DROP defence

The human eye is constantly exposed to natural and artificial lighting. **Ultraviolet light** exposure to the eye has been associated with cataract formation and retinal degeneration. In both cases, it is hypothesized that ultraviolet light can initiate formation of free radicals, which can cause protein modification and lipid peroxidation. Exposure to short-wave **blue light** with wavelength between 380 nm and 450 nm has been associated, with different intensity and severity, to retinal photodamage, possibly leading to transient or permanent eye disorders in exposed workers.

Anti UV eye drops





UV LIGHT
(100 - 380 nm)

COMES FROM



BLUE LIGHT
(380 - 450 nm)

COMES FROM

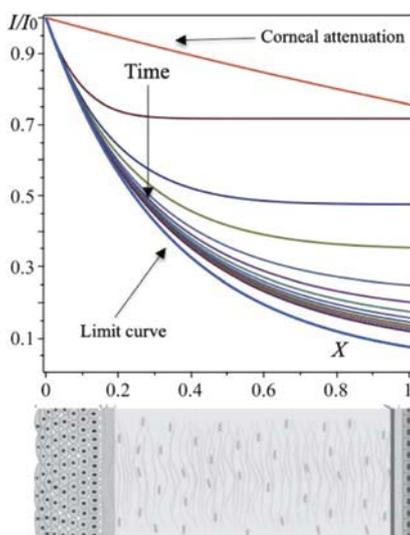


RISKS

- Crystalline lens opacification
- Corneal burns
- Early cataract onset

RISKS

- Headaches
- Blurred vision
- Eye strain and fatigue
- Retinal damage
- Increased AMD risk

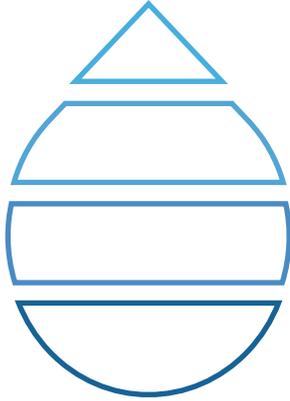


Corneal absorbance spectrum as a function of the dilution factor.
Red line: corneal absorbance without DROP defence.
Limit curve: corneal absorbance with DROP defence.

The first and only solution certified as **Medical Device and Personal Protective Equipment** against UV and blue light

DROP defence[®] is an anti-UV ophthalmic protective solution based on Riboflavin sodium phosphate 0.05%, Vitamin E TPGS, MSM, amino acids and Hyaluronic Acid. **DROP defence**[®] is a unique and certified **Personal Protective Equipment** that protects cornea, crystalline lens and retina against UV radiation, blue light, artificial light sources and prolonged sun exposure, preventing damages like photo-keratitis, photo-keratoconjunctivitis, cataract and AMD. **DROP defence**[®] keeps the ocular surface hydrated and protected.

Patented formulation



Riboflavin

- UV & blue light absorption
- Shielding effect

Vitamin E TPGS

- Penetration enhancer
- Repairing effect

MSM

- Antioxidant
- Free radicals scavenger

Amino Acids

- Epithelial protection
- Ocular surface nourishment
- pH and osmolarity regulation

Indications

Prevention

- Damages caused by excessive UV and blue light exposure
- Photo-keratitis and photo-keratoconjunctivitis due to UV exposure
- Prevents macular ageing, caused by UV and blue light exposure

Protection

- Wide spectrum, from 100 to 450 nm (UV and harmful blue light)
- In case of long exposure to computers, video terminals and TVs
- Indicated for outdoor sports and activities
- Indicated for exposures to high UV environments

Cure

- Ocular diseases that need higher protection against light

Bibliography

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- 3) Di Nezza F, Caruso C, et Al. "Reaction-diffusion model as framework for understanding the role of riboflavin in "eye defence" formulations." *RSC Adv.*, 2020, 10, 14965.
- 4) Palazzo M, Vizzarri F, et Al. "Corneal UV Protective Effects of a Topical Antioxidant Formulation: A Pilot Study on In Vivo Rabbits." *Int. J. Mol. Sci.* 2020, 21(15), 5426.

Product information



10 ml
multidose
dispenser



can be
used with
contact lenses



Class IIB Medical Device

Patents: Italy, Europe, USA, Russia, Australia, South Africa, Brazil.



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