



Acrivue
HYDROPHOBIC FOLDABLE LENS



Nature's Own Light Filter

Acrivue Aspheric Foldable IOL is made from Natural Yellow material having a special monomer containing the identical chromophore present in the human crystalline lens. Natural Yellow is the first IOL material to incorporate the same UV-A blocking and violet light filtering chromophore that is in the human crystalline lens. The approach, to UV blockers and violet filters is to use nature's own solutions to the problem of protecting the retina from harmful energetic light. This proprietary natural light filtering material is named as "Natural Yellow".

The absorption spectrum of 2 - Hydroxykynurenine (Figure-1) shows that this natural compound is an excellent UV -A blocker with secondary purpose of filtering (non blocking) violet light. The visible transmission spectrum of our Acrivue natural Yellow IOL (Figure-2) compared to the transmission spectrum of a young human crystalline Lens as defined by van de Kraats and van Norren. Recent independent investigations have shown that current blue blocking IOLs cause a loss in contrast sensitivity as well as color perception. Acrivue Natural Yellow with Aspheric Optic IOLs provide complete natural protection with out loosing contrast sensitivity or color perception.

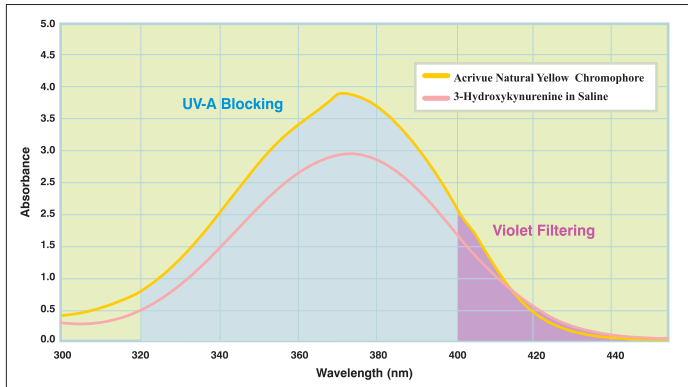


Figure 1 : Comparison of 3-Hydroxykynurenine in Saline versus Acrivue Natural Yellow Chromophore

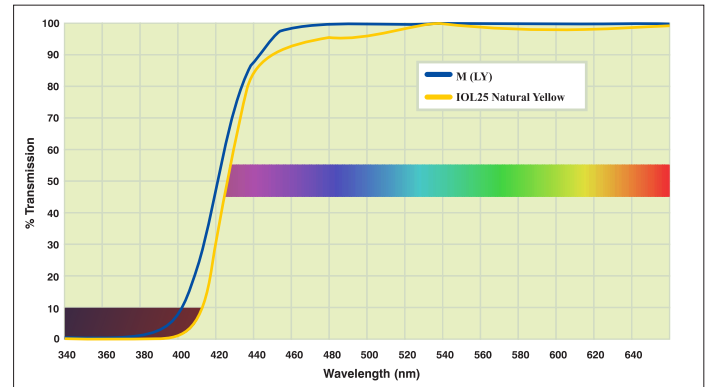
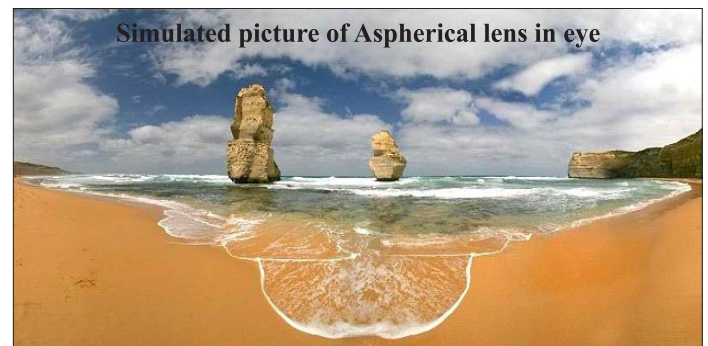
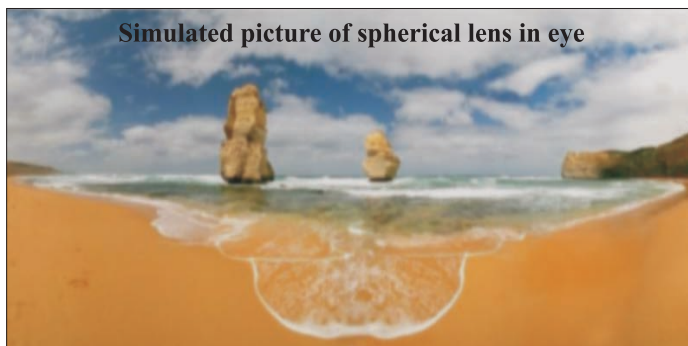


Figure 2 : Comparison of a Young Lens, M (LY) versus Acrivue Natural Yellow



360° Square Edge

S P E C I F I C A T I O N

Material	Hydrophobic Material - Natural Yellow UV-A Blocking & Violet-Blue Light Filtering
Manufactured	Molded & Lathe Cut
Model No.	LBHY32 UVASP
Optic Style	Bi Convex
Covexity	Aspheric
Optic Size	6.0 mm.
Diametral	12.5 mm.
Haptic Style	"L" Loop, 5° Angulation
A "Constant"	118.5
Diopters	+10.0 to +30.0 (0.5 increment in D.+18 to 25)
Refractive Index	1.481

Features :

- Natural Yellow - protect retina without blocking needed blue light.
- 360° Square Edge Optics, minimize the chance of PCO.
- Singlepiece Lens with Double muscle model "L" loop.
- Increase the functional vision without compromising the contrast sensitivity.
- Ideal lens for an Optimal Visual Comfort.
- Below D.+10 can be manufactured on demand.

MANUFACTURED FROM MOST ADVANCED HYDROPHOBIC MATERIAL IMPORTED FROM USA.



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