



## BioColors Fitting Guide

The utilization of the BioColors Trail Fitting set is required to determine the fit, power, and color match prior to placing an initial order for BioColors Contact Lenses. Please contact Customer Service at 1-866-300-6257 to inquire about our BioColors Fitting Set Programs.

### Diameter Selection

- Use a 14.5 diameter for average-sized corneas.
- The standard Iris diameter is 12.25mm with a 4.2mm clear pupil.
- Available diameter range is from 13.5mm to 22 mm.

### Base Curve Selection

- The chart below can be used as a guide for base curve selection based on the lens diameter and average K reading. Available base curves are 7.50 to 11.00 in 0.1 increments

BASE CURVE SELECTION CHART			
Average K	Lens Diameter		
	13.5 & Smaller	14.0 & 14.5	15.0 & Larger
50	7.7	8.0	8.6
49		8.3	
49	8.6		
47			
46		8.9	
45	8.3		
44		8.6	
43			
42	8.9		
41		8.3	
40			8.6
39			
38	9.2		
		9.5	

### Power Determination

- Use standard vertex adjustment to convert the spectacle Rx, or call consultation and let us design the lens it for you.
- i.e. -4.00 sphere = -3.75 net power, -1.00 -3.75 x 180 = -1.00 -3.50 x 180
- Available parameters +/- 20.00, up-to 9.00 diopters of cyl. In 1 degree increments.

### Toric Diagnostic Lens

Every BioColors fitting set comes with an Alden Double Slab Off trial in -3.00 sphere for toric diagnostic evaluation.

## Adjustments

- When evaluating the fit of the lens, please provide our consultants with the following data:
  - Fit/movement (base curve evaluation)
  - Lens overlap (diameter evaluation)
  - Orientation, if toric.
  - Over-refraction

## Prosthetic Lens Underprint Selection

- Most prosthetic contact lens fits **require an underprint** to either hide scarring (such as a white cornea) to block light as in the case of a torn iris. The standard size of the diagnostic lens is a 12.25 iris diameter with a 4.2 clear pupil.
- The final lens color will be the result of an iris pattern layered on top or “Piggy Backing” the underprint. In order to accurately evaluate the color “combination” of the iris pattern and the underprint, it is required to use a BioColors fitting set.
- Initial “Piggy Backing” should be done on an **Orion “Color Diagnostic Tool”** available from Orion Vision. If you do not have a “Color Diagnostic Tool,” the back of a white contact lens case may be used to layer underprints and iris colors prior to insertion into the eye for a preliminary “hand held” color evaluation. Once the best color combination is made the lenses can be placed on the eye if desired.
- If an occluder is required for light sensitivity this must be noted at the time of ordering. The underprints in the BioColors fitting set are for color selection purposes and do not provide sufficient light blocking for total occlusion. Total occlusion must be specified during ordering. Occluding lenses can have both clear open pupils or closed black pupils. It is very important to communicate the objective when making a light blocking “occluding lens.”
- If addressing an opaque or white cornea, select underprint “U1” first in that it is most commonly used; even on light colored eyes. “U4” is the second most common.

## Iris Color Selection

- Iris color selection is the same for prosthetic or custom cosmetic colors used for cosmetic purposes only. Just as with an underprint, iris colors can be layered to create custom colors and designs. The standard “V” Series Fitting set is best suited for prosthetics and light colored eyes. The “X” series is needed for fitting darker eye colors with cosmetic colors. The “X” Series will change a brown eye to Blue, Green or any color in the “X” Series fitting set.
- Iris colors may be “Piggy Backed” on an Orion “Color Diagnostic Tool” for virtually unlimited color combinations including Star Burst patterns and Limbal Rings. NOTE that special effects can be created with custom color layering. Example: a Star Burst pattern layered under an iris pattern with result in a very subtle Star Burst. A Limbal Ring placed under an iris pattern with result in a subtle Limbal Ring.
- Example: A Caribbean Blue layered or “Piggy Backed” on top of a Baby Blue will appear different than a Baby Blue on top of a Caribbean Blue. This phenomenon is true of all color combinations. The potential color combinations are incredible with color layering.

## Cosmetic Color Selection (Not Prosthetic)

Cosmetic color fits are usually performed on the eye. However, The Orion Color Diagnostic Tool can also be used for cosmetic color selection. Before cosmetic colors can be placed on the color diagnostic tool, an under print must be placed on the tool **that most accurately matches the patients natural eye color**. This must be done because the white background on the tool does not provide a good simulation of the cosmetic lens on the patient’s existing eye color.

## The New “X” Series for Darker Colored eyes

- For High Fashion Colors or to change a brown eye to a different color, the “X” Series was created. If your practice specializes in cosmetic colored contacts, the ‘X’ series fitting set is needed.
- If you have already obtained a standard BioColors fitting set, a 12 lens “X” Series set may be obtained for only \$100.00

With BioColors there are four basic patterns to provide occlusion, iris patterns, and cosmetic effects:

Under Print



Iris pattern



Star Burst



Limbal Ring



## Pupil Sizes

- Available Black Prosthetic pupils: 2.6, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0 and 6.3mm
- Available clear pupils: 2.8, 3.3, 4.2, 5.0, 5.5 & 6.0mm
- Prosthetic Pinhole Occluders are available with a 2.2, 2.8 & 3.3mm apertures
- A 4.2mm clear pupil is standard in the diagnostic fitting set.

## Consultation

- It is recommended that consultation be utilized when placing all new orders.
- Consultation may be reached at **1-866-300-6257**
- **Conditions such as aniridia and strabismus CAN be addressed with BioColors Lenses.**

## Custom Iris Diameters

Custom Iris diameters are now available for micro-cornea and larger than standard irises.

In addition to the standard 12.25mm iris, 10.50, 12.75 & 13.20mm are now available.

## Concierge Color Matching Service

Some practitioners wish to have the Consultation Team at Orion Vision perform color matching services using photos or a sample lens. This service is available for an additional fee.

### Photos for Color Matching

- Holding up a white piece of paper next to the eye(s) for photography provides better a image for color matching.
- Photos of the fitting set lenses on the eye taken next to the eye being replicated may be submitted to consultation to fine tune color combination.
- Clear photos taken in ambient light both up close and at 2 feet provide the best detail. Photos may be taken with a digital camera or smart phone. Please do not use any filters or special features when taking photos.

Photos may be sent to [tint@orionvisions.com](mailto:tint@orionvisions.com)

## Available Parameters

- Materials – Polymacon 38% and Methafilcon 55%.
- Parameters: **Sphere** - +/- 20.00, **Cylinder**: up to 9.00 diopters, **Diameters**: 13.5mm to 22mm.

## Lens Care

It is recommended that BioColors Contact Lenses are cleaned regularly with “LensFresh” daily cleaner provided by Orion Vision. It has been determined that BioTrue is the best solution for BioColors contact lenses in terms of maintaining good surface wetting characteristics. Hydrogen peroxide systems may also be used by those needing a more aggressive cleaning regimen. In either case, the alcohol based “LensFresh” is a valuable tool to maintain good lens performance.

## Alden Optical

**800-253-3669**

**consultation@aldenoptical.com**