



**BIOTECH**  
OPHTHALMICS

# VITREORETINAL

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A NEW GENERATION OF  
VITREO-RETINAL TAMPONADES

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## Bio Octane PLUS and Bio Decalin PLUS (7.0 ml)

A reliable and proven treatment for complex Retinal Detachments

Short term tamponade agent with favourable specific gravity or density.  
Colorless, inert and laser stable.

### DESCRIPTION

- + Bio Octane PLUS and Bio Decalin PLUS are clear, colourless and homogenous liquids composed of 90% Perfluoro-n-Octane / Perfluorodecalin and 10% Perfluorohexyloctane.

Physical Properties	Bio Octane PLUS	Bio Decalin PLUS
Physical density (g / cm <sup>3</sup> at 25° C)	1.68	1.81
Refractive index (at 20° C)	1.296	1.318
Viscosity (mPas at 37° C)	1.3	3.7

### ADVANTAGES OF BIO OCTANE PLUS/BIO DECALIN PLUS OVER PURE PERFLUOROCARBON LIQUIDS SUCH AS PERFLUORO-n-OCTANE AND PERFLUORODECALIN LIQUIDS

- + Comparatively less specific gravity than pure Perfluorocarbon liquid. In addition to this favorable specific gravity, low viscosity and insolubility in water; it is also having ideal interfacial tension and surface tension that prevents Bio Octane PLUS-/-Bio Decalin PLUS penetration under the retinal tissue.

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## DESCRIPTION

- + Bio Octane PLUS and Bio Decalin PLUS are chemically and physiologically inert, highly stable, non-toxic and laser stable tamponades. These properties make Bio Octane PLUS-/-Bio Decalin PLUS highly suitable for Endo Photocoagulation and Cryotherapy
- + Pure Perfluorocarbon Liquids (Perfluoro-n-Octane-/-Perfluorodecalin liquids) are poorly soluble in Silicone Oil. Therefore, there is more chance of residual Perfluorocarbon liquids during Silicone Oil exchange procedure. These remnants may lead to unwanted side effects in the eye. Perfluorohexyloctane used in Bio Octane PLUS -/-Bio Decalin PLUS is a semi fluorinated alkane which is a very good solvent for Silicone Oil. Unlike pure Perfluoro-n-Octane-/-Perfluorodecalin liquid, when used for retinal unfolding Bio Octane PLUS-/-Bio Decalin PLUS achieve a very good transition from any residual droplets of unfolding liquid to Silicone Oil, during the subsequent injection of Silicone Oil tamponade

## INDICATIONS

- + Unfolding Detached Retina
- + Giant Tears
- + Trauma
- + Coagulation
- + Cryotherapy
- + Refloating luxated lenses
- + Short-term tamponade

## SUPPLY

Supplied in sterile pre-filled syringe & Vial containing 5.0 ml / 7.0 ml solution



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