

BD Visc™

High Viscosity Viscoelastic Solution

1.4% Sodium Hyaluronate .85ml



Indispensable to
human health

Cataract Surgery and IOL Implantation

BD Visc™ is a high viscosity, high molecular weight, cohesive ophthalmic viscosurgical device (OVD). It creates a deep anterior chamber during cataract surgery and protects the cornea endothelium during the various stages of phacoemulsification and IOL implantation.

Description:

BD Visc™ is a sterile, nonpyrogenic, OVD prepared in a highly purified, molecular weight of sodium hyaluronate, dissolved in a physiological buffer at a pH 7.0-7.5. The BD Visc™ OVD solution is clear and provides excellent visibility during cataract surgery and IOL implantation.

BD Visc™ Product Characteristics:

- Creates and maintains intraocular space
- Displaces and stabilizes tissues
- Maintains a deep, stable anterior chamber during capsulorhexis and IOL implantation
- Provides clear view of the posterior capsule during phacoemulsification and IOL implantation
- High cohesiveness allows for facilitated removal of BD Visc™ from the eye

Surgical Applications:

- Primary and Secondary Lens Implantation
- Phacoemulsification
- Corneal Transplantation
- Anterior Segment Surgery

Technical Data:

- Concentration: 14 mg/ml (1.4%) of sodium hyaluronate
- Molecular weight: 5-6M Daltons average
- Viscosity: 4.8M mPaS (zero shear rate 25° C)
- Osmolarity: 320 mOsm/k
- PH: 7.0-7.5
- Shelf life: 2 years
- Storage: 2-8° C
- Filling size: .85 ml sterile hy-pack syringe
- Cannula size: 27G, angled 35°, 9 mm bend to tip
- Composition:
 - 14 mg/ml (1.4%) sodium hyaluronate
 - Disodium phosphate dehydrate 1.4 mg
 - Sodium chloride 8.3 mg
 - Potassium dihydrogen phosphate 0.26 mg
 - Sterile water for injection

TABLE 1

Classification of Viscoadaptives and High Viscosity OVDs¹

OVD	Concentration	MW (D)	V ₀ (mPaS)
Viscoadaptives (zero-shear viscosity > 5M mPaS)			
*BD MultiVisc™	2.5% NaHa	3.0M avg	16.0M
Healon5™	2.3% NaHa	4.0M	7.0M
Higher Viscosity Cohesive (zero-shear viscosity > 1M mPaS)			
BD Visc™	1.4% NaHa	5-6M avg.	4.8M
HealonGV®	1.4% NaHa	5.0M	2.0M

Pseudoplasticity Curves of Viscoadaptives and High Viscosity OVDs³

FIGURE 1

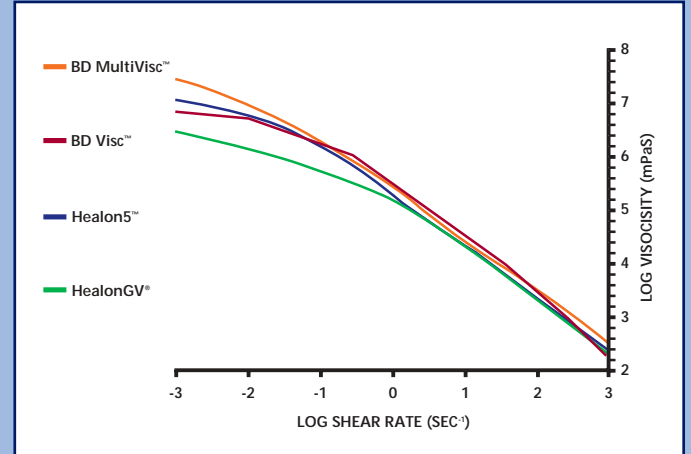


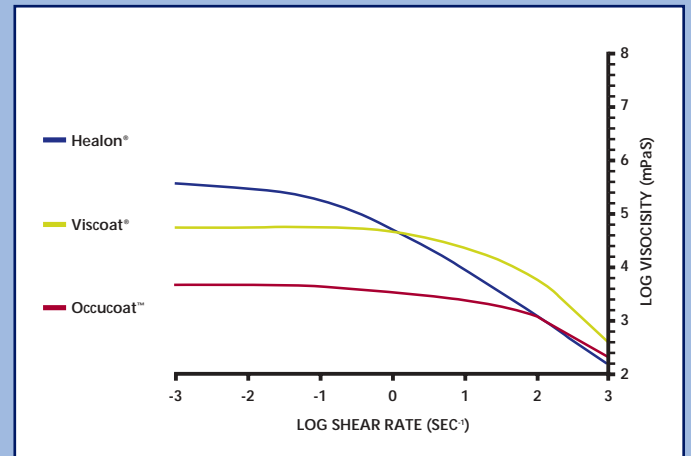
TABLE 2

Classification of Other Common OVDs¹

OVD	Concentration	MW (D)	V ₀ (mPaS)
Viscous Cohesive (100k mPaS < zero-shear viscosity < 1M mPaS)			
Healon®	1.0% NaHa	4.0M	230K
Provisc®	1.0% NaHa	2.0M	280K
Amvisc Plus™	1.6% NaHa	1.0M	100K
Amvisc®	1.2% NaHa	1.0M	100K
Lower Viscosity Dispersives (10K mPaS < zero-shear viscosity < 100K mPaS)			
Viscoat®	3.0% NaHa 4% CDS	500K	41K
Cellugel®	2.0% mod HPMC	100K	28K
Occucoat™	2.0% HPMC	86K	6K

Pseudoplasticity Curves of Other Common OVDs³

FIGURE 2



mPaS = milli Pascal seconds

MW (D) = Molecular Weight (Daltons)

V₀ (mPaS) = Zero-Shear Viscosity (milli Pascal seconds)

NaHa = Sodium Hyaluronate

M = Million

K = Thousand

*The molecular weight of BD MultiVisc™ Viscoadaptive is calculated and averaged using a cross-link of both long and short molecular chain lengths of hyaluronate acid.

References:

1. Table 1: Data on file, BD Ophthalmic Systems
2. Table 2: Data on file, BD Ophthalmic Systems
3. Figure 1: Data on file, BD Ophthalmic Systems
4. Figure 2: Data on file, BD Ophthalmic Systems

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