

## HYALURONIC ACID, BIOGEL 1 %

**CODE:** HIAL-1

Date of last amendment: 19.08.2024

**INCI name:** WATER (AQUA) (AND) SODIUM HYALURONATE (AND) PHENOXYETHANOL.

**DESCRIPTION:** High Molecular Weight Hyaluronic Acid (approximately 1.200.000 Dalton), obtained by fermentation of natural strains of *Streptococcus Equii*.

| COMPOSITION (INCI NAME)                 | % (weight) | CAS #     |
|-----------------------------------------|------------|-----------|
| Water (Aqua)                            | 98.000     | 7732-18-5 |
| Sodium Hyaluronate                      | 1.000      | 9067-32-7 |
| <b>Preservatives:</b><br>Phenoxyethanol | 1.000      | 122-99-6  |

|                                 |                                                                                                                       |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Color:</b>                   | Colorless                                                                                                             |
| <b>Appearance:</b>              | Translucent to slightly opalescent fluid                                                                              |
| <b>Odor:</b>                    | Mild                                                                                                                  |
| <b>pH:</b>                      | 4.00 – 6.00 (25°C) (USP XXVII)                                                                                        |
| <b>Density:</b>                 | 0.980 – 1.050 (pycnometer) (20°C) (USP XXVII)                                                                         |
| <b>Dry residue:</b>             | 1.00 gr.% minimum (0.5 gr. 1 hour 110° C).                                                                            |
| <b>Viscosity:</b>               | 2.000 - 20.000 cps (Brookfield, Pin 3, RPM 6, 25°) (USP XXVII)                                                        |
| <b>Molecular Weight:</b>        | 1.200.000 Dalton. (Dynamic Laser Scattering)                                                                          |
| <b>Identification:</b>          | FTIR-ATR (Iris accessory)                                                                                             |
| <b>Assay:</b>                   | 1% Carbazol Method (Bitter, T.; Muir, H. A modified uronic acid carbazole reaction. Anal. Biochem. 1962, 4, 330–334.) |
| <b>Heavy Metals (Pb):</b>       | Max. 20 ppm.                                                                                                          |
| <b>Heavy Metals (As):</b>       | Max. 2 ppm.                                                                                                           |
| <b>Microbiological control:</b> | Mesophilic bacteria: less than 200 CFU/gr. Moulds & yeast: less than 20 CFU/gr. No pathogens.                         |

**Keep refrigerated (5-15°C). Do not freeze. Protect from light.**

**EXTERNAL COSMETIC USE**