



### What is IONTOFOR-VET Electrode ?

IONTOFOR-VET Electrode is a device for the transepithelial delivery of intravenous (I.V.) drug products or Riboflavin into the corneal stroma by iontophoresis.

IONTOPHORESIS is a process of applying a low intensity electrical current on a tissue to increase the penetration of a charged substance.

IONTOFOR-VET Electrode is a corneal applicator with an electrode that enables the rapid passage of products into the corneal stroma by iontophoresis.

IONTOFOR-VET Electrode is connected to the electrical generator K-IONO.

A mild electric current from 1 to 4 mA is applied for 25 to 10 minutes.

### What is IONTOFOR-VET for CXL ?

IONTOFOR-VET Electrode can be used to deliver Riboflavin (0.1%) in the cornea.

RIBOVET is a 0.1% Riboflavin solution, a chromophore photo-activated in-situ with UV-A at 365 nm wavelength from a UV source.

A UV-A source delivering a minimum dose of energy of 54 J/cm<sup>2</sup> is needed to activate in-situ the Riboflavin.

Once photo-activated with UV-A light, Riboflavin acts as a disinfectant, creating locally massive amounts of reactive oxygen species that reduce the pathogen load.

Riboflavin also changes the structure of collagen fibers, reducing collagenase by cross-linking (CXL).

### What equipment is needed for IONTOPHORESIS ?

IONTOFOR-VET Electrode, sterile corneal iontophoresis applicator to deliver I.V. products (not included) or IONTOFOR-VET kit that includes the IONTOFOR-VET Electrode and a RIBOVET vial (0.1% Riboflavin solution) for CXL procedures.

Both products are connected to K-IONO, a reusable iontophoresis generator delivering a fixed dose of 10 mA.min during 25 to 10 minutes (time adjust with current setting) with current from 1 to 4 mA.

FOAM inserts (KAV) can be inserted into the electrode for the treatment of standing animals, fragile corneas or extended lesions.

### Which products can be delivered by IONTOPHORESIS?

IONTOFOR-VET electrode can be supplied alone for the administration of products listed below (not supplied, I.V. presentations mandatory) or in a kit with Riboflavin (formulated for Iontophoresis).

**Negatively** charged products (use **black** ION-CXL lead):

- Antibiotics
  - Ceftazidime
  - Cefazolin
  - Tobramycin
- Antivirals
  - Foscarnet
  - Ganciclovir
- Anti-inflammatories
  - Dexamethasone
  - Methylprednisolone
  - Aspirin
- Immunosuppressant
  - Methotrexate
- CXL Agent
  - Riboflavine (vitamine B2)

**Positively** charged products (use **red** ION-CXL lead):

- Antibiotics
  - Vancomycin
  - Amikacin
  - Gentamicin
  - Ciprofloxacin
  - Ticarcillin
- Antifungals
  - Ketoconazole
  - Miconazole

### IONTOFOR-VET Electrode characteristics

<b>Diameter</b>	<b>9 mm</b>
<b>Surface</b>	<b>0.64 cm<sup>2</sup></b>
<b>Volume</b>	<b>Min. 1 ml - Max. 2 ml</b>

