

NEXHA- hyaluronate sodium solution
Vetoquinol USA, Inc.

NexHA™
(hyaluronate sodium)

Injectable Solution 10 mg/mL
For Intravenous Use In Horses Only

4 mL

CAUTION: Federal law restricts this drug to use by or on the order of a licensed veterinarian.

DESCRIPTION: NexHA™ injectable solution is a clear, colorless solution of low viscosity.

NexHA™ injectable solution is pyrogen free, sterile and does not contain a preservative. It is administered by intravenous injection. Hyaluronic acid, the conjugate acid of hyaluronate sodium, is extracted from the capsule of *Streptococcus* spp. and purified, resulting in a form which is essentially free of protein and nucleic acids. NexHA™ injectable solution is supplied in 4 mL (40 mg) vials. Each mL contains 10 mg hyaluronate sodium, 8.5 mg sodium chloride, 0.223 mg sodium phosphate dibasic acid and 0.04 mg sodium phosphate monobasic. The pH is adjusted to between 6.5 and 8.0 with sodium hydroxide or hydrochloric acid.

CHEMISTRY: Hyaluronic acid, a glycosaminoglycan, can exist in the following forms depending upon the chemical environment in which it is found: as the acid, hyaluronic acid; as the sodium salt, sodium hyaluronate (hyaluronate sodium); or as the hyaluronate anion. These terms may be used interchangeably but in all cases, reference is made to the glycosaminoglycan composed of repeating subunits of D-glucuronic acid and N-acetyl-D-glucosamine linked together by glycosidic bonds. Since this product originates from a microbial source, there is no potential for contamination with dermatan or chondroitin sulfate or any other glycosaminoglycan.

CLINICAL PHARMACOLOGY: Hyaluronic acid is a naturally occurring substance present in connective tissue, skin, vitreous humor and the umbilical cord in all mammals. High concentrations of hyaluronic acid are also found in the synovial fluid. It also constitutes the major component of the capsule of certain microorganisms. The hyaluronic acid produced by bacteria is the same structure and configuration as that found in mammals.

The actual mechanism of action for hyaluronate sodium in the healing of degenerative joint disease is not completely understood. One major function appears to be the regulation of normal cellular constituents. This effect decreases the impact of exudation, enzyme release and subsequent degradation of joint integrity. Additionally, hyaluronate sodium exerts an anti-inflammatory action by inhibiting the movement of granulocytes and macrophages.¹

Hyaluronate molecules are long chains which form a filter network interspersed with normal cellular fluids. It is widely accepted that injection directly into the joint pouch enhances the healing of inflamed synovium by restoring lubrication of the joint fluid. This

further supplements the visco-elastic properties of normal joint fluid.

INDICATIONS: NexHA™ injectable solution is indicated in the treatment of joint dysfunction of the carpus or fetlock in horses due to non-infectious synovitis associated with equine osteoarthritis.

DOSAGE AND ADMINISTRATION: 4 mL (40 mg) injected intravenously. Treatment may be repeated at weekly intervals for a total of three treatments. Use aseptic technique and inject slowly into the jugular vein. Horses should be given stall rest after treatment before gradually resuming normal activity.

Discard any unused portion of the drug and the empty vial after opening.

CONTRAINDICATIONS: There are no known contraindications for the use of NexHA™ injectable solution in horses.

WARNING: Do not use in horses intended for human consumption.

HUMAN WARNINGS: Not for use in humans. Keep this and all other drugs out of reach of children.

ANIMAL SAFETY WARNING: Not for intra-articular use.

PRECAUTIONS: Radiographic evaluation should be carried out in cases of acute lameness to ensure that the joint is free from serious fracture.

The safety of NexHA™ injectable solution has not been evaluated in breeding stallions or in breeding, pregnant or lactating mares.

ADVERSE REACTIONS: No local or systemic side effects were observed in the clinical field studies using hyaluronate sodium injectable solution.

POST-APPROVAL EXPERIENCE: While all adverse reactions are not reported, the following adverse reactions are based on voluntary post-approval reporting for hyaluronate sodium injectable solution: Occasional depression, lethargy, and fever.

To report suspected adverse events, contact Vetoquinol USA, Inc. at 1-800-835-9496. For technical assistance or to obtain a copy of the Safety Data Sheet (SDS), contact Vetoquinol USA, Inc. at 1-800-267-5707. For additional information about adverse drug experience reporting for animal drugs, contact FDA at 1-888-FDA-VETS or online at www.fda.gov/reportanimalae.

EFFECTIVENESS: Forty-six horses with lameness in either the carpal or fetlock joints were treated intravenously or intra-articularly with hyaluronate sodium injectable solution in a well controlled clinical field trial conducted at four locations. One, two or three injections were given based on clinical improvement. Overall clinical improvement was judged as excellent or good in 90% of the cases treated intravenously and 96% of those treated intra-articularly with hyaluronate sodium injectable solution.

ANIMAL SAFETY: Hyaluronate sodium injectable solution was administered to normal horses at one, three and five times the recommended intra-articular dosage of 20 mg and the intravenous dosage of 40 mg. Treatments were given once weekly for nine consecutive weeks (three times the maximum duration). No systemic clinical signs were observed nor were there any adverse effects upon hematology or clinical chemistry parameters. A transient, slight to mild post-injection swelling of the joint capsule occurred in some of the animals treated intra-articularly with hyaluronate sodium injectable solution as it did in the saline treated control horses. No gross or histological

lesions were observed in the soft tissues or the surface areas of the treated joint.

STORAGE: Store below 25°C (77°F).

HOW SUPPLIED: NexHA™ injectable solution is supplied in cartons containing twelve × 4 mL (40 mg) vials.

Manufactured for:
Vetoquinol USA, Inc.
4250 N. Sylvania Ave.
Ft. Worth, TX (USA) 76137
www.vetoquinolusa.com

REFERENCES: ¹Swanstrom, O.G. 1978. Hyaluronate (hyaluronic acid) and its use, *Proc. American Assoc. Equine Pract.*, 24th annual convention, pp. 345-348.

Approved by FDA under ANADA # 200-432

Made in France

439313
11/2022
100409B

vetoquinol

PRINCIPAL DISPLAY PANE - 4 mL Vial Label

NDC 17030-098-12

NexHA™
(hyaluronate sodium)

INJECTABLE SOLUTION
10 MG/ML

Approved by FDA under
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vetoquinol

4mL

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Read package insert
for details.

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Ft. Worth, TX (USA) 76137
www.vetoquinolusa.com
Made in France
439313 11/2022 100480B

Lot & Exp
Placeholder
no varnish area

NEXHA

hyaluronate sodium solution

Product Information

Product Type	PRESCRIPTION ANIMAL DRUG	Item Code (Source)	NDC:17030-098
Route of Administration	INTRAVENOUS		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
HYALURONATE SODIUM (UNII: YSE9PPT4TH) (HYALURONIC ACID - UNII:S270N0TRQY)	HYALURONATE SODIUM	10 mg in 1 mL

Inactive Ingredients

Ingredient Name	Strength
SODIUM CHLORIDE (UNII: 451W47IQ8X)	
SODIUM PHOSPHATE, DIBASIC, DODECAHYDRATE (UNII: E1W4N241FO)	
SODIUM PHOSPHATE, MONOBASIC, DIHYDRATE (UNII: 5QWK665956)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:17030-098-12	12 in 1 CARTON		
1		4 mL in 1 VIAL		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANADA	ANADA200432	01/15/2020	

Labeler - Vetoquinol USA, Inc. (106824209)

Establishment

Name	Address	ID/FEI	Business Operations
Lifecore Biomedical LLC		085358869	API MANUFACTURE

Establishment

Name	Address	ID/FEI	Business Operations
Valdepharm		260128560	ANALYSIS, MANUFACTURE, LABEL, PACK

Revised: 1/2024

Vetoquinol USA, Inc.