

INRA 96 ⁽¹⁾

Conservation extender for stallion semen.

Improves conservation and maintains the fertility potential for a minimum of 24 hours.

Packaging

200 ml flask. PET container (biocompatible and unbreakable).

Technical information

INRA 96 is a sterile milky white and sterile solution.

pH : 7,10 +/- 0,10. Osm : 330 to 360m Osm/kg

Composition

Milk based extenders on the market today contain all of the soluble and micellar proteins.

INRA 96 contains only the purified fraction of milk micellar proteins that have proven to highly protect the sperm cells.

INRA 96's composition is therefore clearly defined and standardized.

It is important to note that INRA 96 contains antibiotics (Penicillin and Gentamycin) and a fungicide (Amphotericin B).

Indications

INRA 96 is formulated for the preservation and transport of Equine semen at +4°C (under anaerobic conditions) and at +15 °C (under aerobic conditions).

Use

Evaluate and dilute the stallion's sperm to a final concentration of $20 \cdot 10^6$ sperm cells per ml. Dose volume should be equal to 10 ml. It is however possible for this extender to be used at concentrations higher than $200 \cdot 10^6$ sperm cells per dose.

Note : Do not use black rubber syringes (butyl), as they are cytotoxic to the sperm cell.

Storage before use

INRA 96 can be stored and transported at ambient temperature as long as it does not exceed +30°C. (85 to 90 F)

For prolonged storage INRA 96 should be stored at temperatures between +2°C and +8°C.

Expiration date

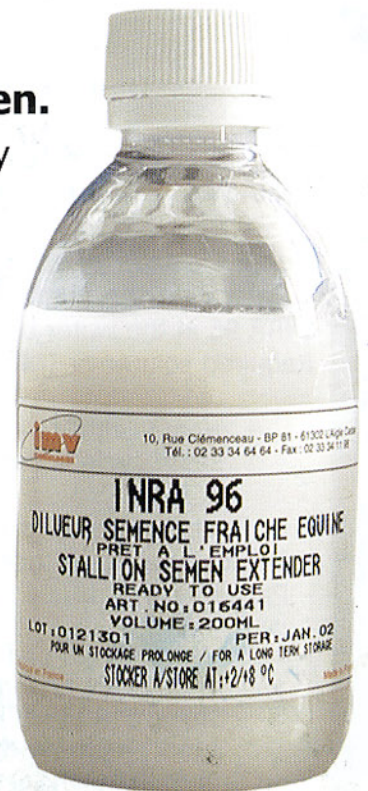
1 year from the date of manufacture (Lot number and expiration date are printed on the label).

Quality assurance

- Ascending and descending traceability.
- Manufactured in a laminar flow hood class 100 according to GMP standards.
- Quality control by INRA before marketing.
- Sterility is tested by an approved third party laboratory.

(1) F.Batellier , M.Vidament, G.Duchamp, G.Arnaud, JM.Yvon J.Fauquant, M.Magistrini -

Advances in cooled semen Technologies, 3rd International Symposium on Stallion Reproduction Jan 10,12 2001 CSU Fort Collins, Co USA.



Produits
Consommables

Reference	Description	Packaging
016441	INRA 96 flask of 200ml	Unit, packed in boxes of four flasks.

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Use of the INRA 96 Fresh/Cooled Equine Semen Extender

The following information is based on in vivo and in vitro results obtained by INRA's equine reproduction team (INRA-PRC, 37380 France) as well as in the experimental breeding stations of the French National Stables.

Semen doses preparation

- Determine the number of insemination doses that will be prepared. Warm the necessary volume of INRA 96 in the water bath at +37°C. This volume is calculated as follows:

Required volume of INRA 96 = number of doses to prepare x 10 ml of INRA 96

Note : Left over extender may be frozen and stored in sterile containers. However, **only one freeze and thaw cycle is recommended**. A thawing process at +37°C is suggested.

- Collect, filter, evaluate and calculate sperm concentration in the ejaculate.
- Dilute the ejaculate to a final concentration of 20×10^6 sperm cells per ml.
- Package the diluted ejaculate in doses of 10ml for immediate insemination or conservation.

Note : doses prepared with INRA 96 may be stored for 24 hours at +4°C and +15°C. Results obtained after 24 hours of preservation (from 1994 to 1996) show that fertility of certain stallions was improved if stored at +15 °C. This proves to be an alternative for those stallions of which semen is affected by "cold shock" when lowering the temperature to +4°C. These results also allow, according to needs and quality of the stallion semen, to use the INRA 96 either at +15°C or +4°C.

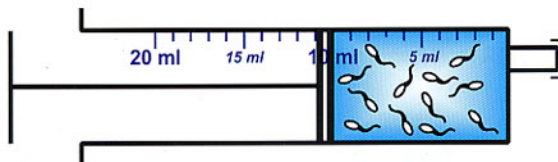
Also, results obtained after 72 hours of preservation allow us to think we can preserve semen in INRA 96 extender longer than 24 hours before insemination.

BATELLIER et al., 2001. L'INRA 96 un milieu de conservation de la semence d'étalon à +4°C et +15°C (INRA 96, an extender for the preservation of semen at +4°C and at +15°), 27th. Journée d'étude de la recherche equine, 7 Mars 2001

2 conservations protocole of the INRA 96 Fresh/Cooled Equine Semen Extender

A - +4°C Conservation - Cooled and transpored method.

Diluted semen should be preserved under **anaerobic** conditions (see figure below). Package 10 ml of the diluted ejaculate in a 20 cc syringe and **eliminate air left inside the syringe**.

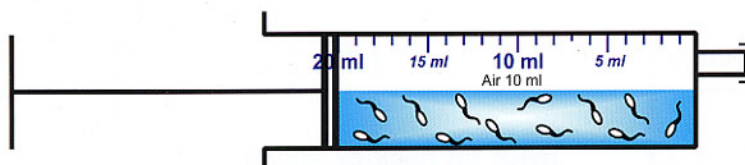


There are semen shipping containers that can maintain a temperature of +4°C independently, thus, semen transport at +4°C is possible.

B - +15°C Conservation - +15°C method.

Diluted semen should be preserved under **aerobic** conditions when preserving at +15°C (see figure below).

Package 10 ml of the diluted ejaculate in a 20 cc syringe and fill the rest of the syringe with 10 cc of air. Store the syringe horizontally.



No independent or autonomous shipping containers exist to maintain a +15°C temperature (+/- 1°C maximum). Constant monitoring of temperature is required.