

# ViGRO™ Media

## Product Information Sheet

### General Information

**Please read the relevant information for each ViGRO product. All refrigerated media listed below should be gently mixed by inverting the container several times (not shaken) before being used.**

**All ViGRO media contain antibiotics at levels appropriate for specific media.**

#### ViGRO Complete Flush Solution

ViGRO Complete Flush Solution does not require the addition of serum, BSA, or antibiotics. This solution contains 0.1% Polyvinyl alcohol as a surfactant. Heavy metal chelators are also included.

**Recommended storage:** 15-30°C; however, product will not be harmed by refrigeration. Do not freeze.

#### ViGRO Holding Plus

ViGRO Holding Plus is a complex, serum-free solution for maintaining embryos up to 9 hours in an air atmosphere at temperatures from 18-25°C. **Recommended use:** Embryos should be recovered from the flushing solution and transferred to a petri dish containing ViGRO Holding Plus and covered. Embryos can be held at room temperature for up to 9 hours or up to 20 hours at 4°C. Embryos can be transferred using a straw containing ViGRO Holding Plus.

**Storage:** 2-8°C.

#### ViGRO Rinsing Solution

This solution is used for washing (rinsing) embryo collection filters at the end of the collection. Although embryos usually do not stick to filter membranes, it is good general practice to thoroughly wash the filter. A fast and effective way to do this is to fill a 20ml syringe with Rinsing Solution and spray the surface of the filter while holding the filter over a clean searching dish.

**Recommended storage:** 15-30°C; however, it will not be harmed by refrigeration. Do not freeze.

#### ViGRO Freeze Plus

ViGRO Freeze Plus is designed for the cryopreservation of bovine, ovine and caprine embryos. ViGRO Freeze Plus is a Dulbecco's Modified Phosphate Buffered Saline (DMPBS)-based solution containing 0.4% BSA, 0.1M Sucrose and 10% Glycerol.

**Recommended use:** Embryos should be placed in ViGRO Freeze Plus for approximately 10 minutes, loaded into straws and frozen according to selected protocols.

**Storage:** 2-8°C.

#### ViGRO Ethylene Glycol Freeze Plus and ViGRO Ethylene Glycol Freeze Plus with Sucrose

ViGRO Ethylene Glycol Freeze Plus is designed for the cryopreservation of bovine, ovine and caprine embryos where direct transfer or single-step thaw is required. It is a DMPBS-based solution containing 1.5M ethylene glycol, 0.4% BSA. **ViGRO Ethylene Glycol Freeze Plus with Sucrose** contains all of the above and 0.1M sucrose.

**Recommended use:** Embryos should be transferred into ViGRO Ethylene Glycol Freeze Plus and immediately loaded into a straw which is then sealed in preparation for freezing. After no less than 5 minutes and no more than 10 minutes, the straw should be cooled to seeding temperature. Straws are then frozen according to selected protocol. Embryos frozen in ViGRO Ethylene Glycol Freeze Plus can be thawed 'in straw' and transferred directly to a recipient or thawed 'in straw' and transferred to a dish of suitable holding medium (ViGRO Holding Plus) for rehydration.

**Storage:** 2-8°C.

#### ViGRO One-Step Thaw Plus

ViGRO One-Step Thaw Plus is a solution intended for the controlled rehydration of embryos following freezing. It is a DMPBS-based solution with 1.0M sucrose.

**Recommended use:** Following thawing, embryos should be immersed for 15 minutes in ViGRO One-Step Thaw Plus, then transferred to a suitable holding medium (ViGRO Holding Plus). Embryos can then be loaded into straws for implantation.

**Storage:** 2-8°C.

#### ViGRO Thaw Plus (1, 2, 3)

ViGRO Thaw Plus solutions are intended for the gradual rehydration of embryos following freezing.

**Thaw Plus 1:** DMPBS base, 0.5M Sucrose, 5% Glycerol

**Thaw Plus 2:** DMPBS base, 0.5M Sucrose, 2.5% Glycerol

**Thaw Plus 3:** DMPBS base, 0.6M Sucrose, 0% Glycerol

**Recommended use:** Following thawing, embryos should be sequentially immersed for 5 minutes in **Thaw 1**, **Thaw 2** and **Thaw 3** and then transferred to a suitable holding medium (ViGRO Holding Plus).

**Storage:** 2-8°C.

#### ViGRO Splitting Plus

ViGRO Splitting Plus is a medium designed for the safe and rapid splitting and/or biopsy of embryos by enhancing the adhesion of embryos to the bottom of the petri dish, thereby eliminating the need for a holding pipette.

**Recommended use:** Place a 50µl micro-drop in a tissue culture-treated petri dish. Embryos are placed in the drop for splitting.

**Recommended storage:** 15-30°C; however, it will not be harmed by refrigeration. Do not freeze.

#### ViGRO Retrieval Supplement PF

ViGRO Retrieval Supplement PF is a protein-free (PF) medium containing a surfactant that aids in the release of embryo biopsies and split embryos from the bottom of the petri dish in which micromanipulation has taken place.

**Recommended use:** Following bisection or biopsy, a few microliters of ViGRO Retrieval Supplement PF neutralizes the electrostatic attraction of the culture dish and allows for easy recovery of demi-embryos or the risk-free transfer of biopsies to amplification capillaries.

**Recommended storage:** 15-30°C; however, it will not be harmed by refrigeration. Do not freeze.

#### ViGRO Trypsin Wash (0.25%)

ViGRO Trypsin Wash (0.25%) is a 0.25% solution (Hank's Balance Salts) of Trypsin (1:250) without either CaCl<sub>2</sub> or MgCl<sub>2</sub> .6H<sub>2</sub>O. As specified by the embryo import protocols of many countries, trypsin is used prior to cryopreservation to remove/deactivate several different viruses that may be on the surface of the zona pellucida. This medium is packaged in 5ml biofreeze vials. Shelf life is 9 months from date of manufacture and the product must be stored frozen.

**Recommended use:** Embryos for export should be washed in ViGRO Trypsin Wash (0.25%) in accordance with the regulations set by the importing country.

**ViGRO Trypsin Wash (0.25%) should be stored frozen at all times. Thaw immediately prior to use. Do not refreeze.**

#### ViGRO TL HEPES

TL HEPES is a medium used for rinsing oocytes in certain steps of IVF protocols. TL HEPES is produced both with and without 0.3% BSA and is packaged in sterile 500ml high-density PETG bottles with screw closure. A heat shrink band around the closure and neck provide a tamper-proof seal.

**Storage:** TL Hepes with BSA: 2-8°C. TL Hepes without BSA: 15-30°C; however, it will not be harmed by refrigeration. Do not freeze.

**Disclaimer:** Recommended procedures included in this brochure should not be interpreted as a complete protocol. Individual protocols may vary according to user. ViGRO™ media are perishable products which deteriorate at a rate dependent on handling and storage. Bioniche Animal Health USA, Inc. does not warrant any viability or conception resulting from the use of a ViGRO™ product. For further information regarding protocols, please telephone (509) 335-4047.



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