

## ET media *when results matter*

**EMCARE** PROVIDES OPTIMAL SUPPORT FOR SAFE EMBRYO HANDLING, WITH EFFECTIVE FLUSHING AND HANDLING MEDIA DEVELOPED BY THE WORLD'S LEADING EMBRYO PHYSIOLOGISTS.

Designed for specialist veterinarians and animal reproduction researchers in the embryo transfer (ET) industry, **EMCARE** media provides ideal conditions for flushing, handling, freezing and thawing embryos.

Its optimised nutritional composition enhances embryo development, and a MOPS buffer (inert zwitterion) provides a more stable micro-environment. This is because a MOPS buffered media is less toxic than both HEPES or Phosphate based media. Trials have shown that more embryos in a MOPS buffered media will develop to a cleavage stage than either HEPES or Phosphate buffered media.

**EMCARE's** pre-mixed, ready-to-use media saves time and guarantees consistent quality.

For the most natural and protective surfactant and energy source the flushing and handling media also contains New Zealand-origin ICPbio bovine albumin. This is virus-screened and irradiated to 2.5Mrads to ensure a safe, natural embryo protective agent.

All products contain 25mg/L kanamycin-sulphate antibiotic.

### **EMCARE** is the ideal ET media:

#### *SAFE:*

- MOPS buffer provides a more stable micro environment
- Natural New Zealand-sourced, irradiated albumin cleans, protects and provides energy for the embryo
- Sterile filled
- Subjected to extensive quality assurance procedures

#### *CONVENIENT AND DEPENDABLE:*

- Ready to go – packaged in field-ready convenient packaging options
- Easy to use – flushing assembly hook-up
- No additional filtration is necessary
- Contains antibiotic
- Water quality, sterility and ionic strength accurately controlled to stringent international standards

For successful embryo transfer, embryos must be able to survive outside the body in solutions closely mimicking normal physiological conditions. The ability to freeze and thaw embryos has significant import/export benefits in terms of safety and economics as well as breeding cycle management.

ICPbio's **EMCARE** has been formulated to meet these demanding standards, using internationally audited processes.

## COMPLETE EMCARE *flushing media*

- Contains ICPbio bovine albumin providing surfactant and embryo protective properties, with binding sites absorbing plasticisers, endotoxins and proteases.
- Plain version available as a base for variable amounts of albumin added separately.
- Easy hook up to a flushing assembly; protected sterile ports for gravity-feed flushing or syringe method flushing, plus a luer port with a one-way valve for syringe method or new tap-free syringe method flushing assembly.

Description	Units	Cat. No.
COMPLETE EMCARE Embryo Flushing Solution (with ALBUMIN)	1L	CECFS-100
COMPLETE EMCARE Embryo Flushing Solution (with ALBUMIN)	2L	CECFS-200
EMCARE Flushing Solution (without ALBUMIN)	1L	ECFS-100
EMCARE Flushing Solution (without ALBUMIN)	2L	ECFS-200
20% ALBUMIN concentrate	5 × 20ml	ABRD-100

## EMCARE *handling media*

Contains 0.4% ICPbio bovine albumin

- Optimised nutrient composition improves embryo survival rates.
- 5ml minipac option provide sterile, one time use product with no additional equipment costs.

Description	Pack	Units	Cat. No.
EMCARE Embryo Holding Solution	Minipac	20 × 5 ml	MPHM-100
	Bottle Pack	5 × 20 ml	ECHM-100
	Bottle Pack	5 × 100 ml	ECHM-500
with 10% Glycerol	Minipac	20 × 5 ml	MPGF-100
	Bottle Pack	5 × 20 ml	ECGF-100
with 34.2% Sucrose (1M)	Minipac	20 × 5 ml	MPST-100
	Bottle Pack	5 × 20 ml	ECST-100
with 1.5M Ethylene Glycol	Minipac	20 × 5 ml	MPEG-100
	Bottle Pack	5 × 20 ml	ECEG-100
EMCARE Embryo Thawing System*	Minipac	4 × 4 × 5 ml	MPTP-80
	Bottle Pack	4 × 20 ml	ECTP-80

**\*Embryo Thawing System**  
Thaw  
1. 6% v/v glycerol + 0.3M (10.3% w/v) sucrose in EMCARE  
2. 3% v/v glycerol + 0.3M (10.3% w/v) sucrose in EMCARE  
3. 0.3M (10.3% w/v) sucrose in EMCARE  
4. EMCARE hold  
To use Embryo Thawing System: Thaw straw 15–20 seconds in 37°C waterbath then pass embryos through each of the 4 solutions 6–7 minutes each

For more information on **EMCARE** refer to [www.icpbio.com](http://www.icpbio.com), email [sales@icpbio.com](mailto:sales@icpbio.com) or phone 64 9 838 4205

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## Quality and manufacturing

ICPbio works alongside internationally acclaimed research organisations to develop innovative technological solutions for animal health and industrial testing applications.

The company is a GMP certified manufacturer (Good Manufacturing Practice) and is also certified to ISO9001.

New Zealand's geographic isolation, stringent border controls and pastoral-based agricultural economy have ensured the country remains free

of scrapie, all List A (OIE) diseases and major animal diseases including BSE, akabane, Blue Tongue, Foot and Mouth and Rinderpest.

**EMCARE** products are filled using in-line filtration in a Class 100 environment and quality control tested to ensure compliance with specifications, including sterility testing to meet British Pharmacopoeia Sterility test method. Albumin is of NZ origin, virus-screened and irradiated to 2.5Mrads. The water used is highly purified with a low endotoxin specification.

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