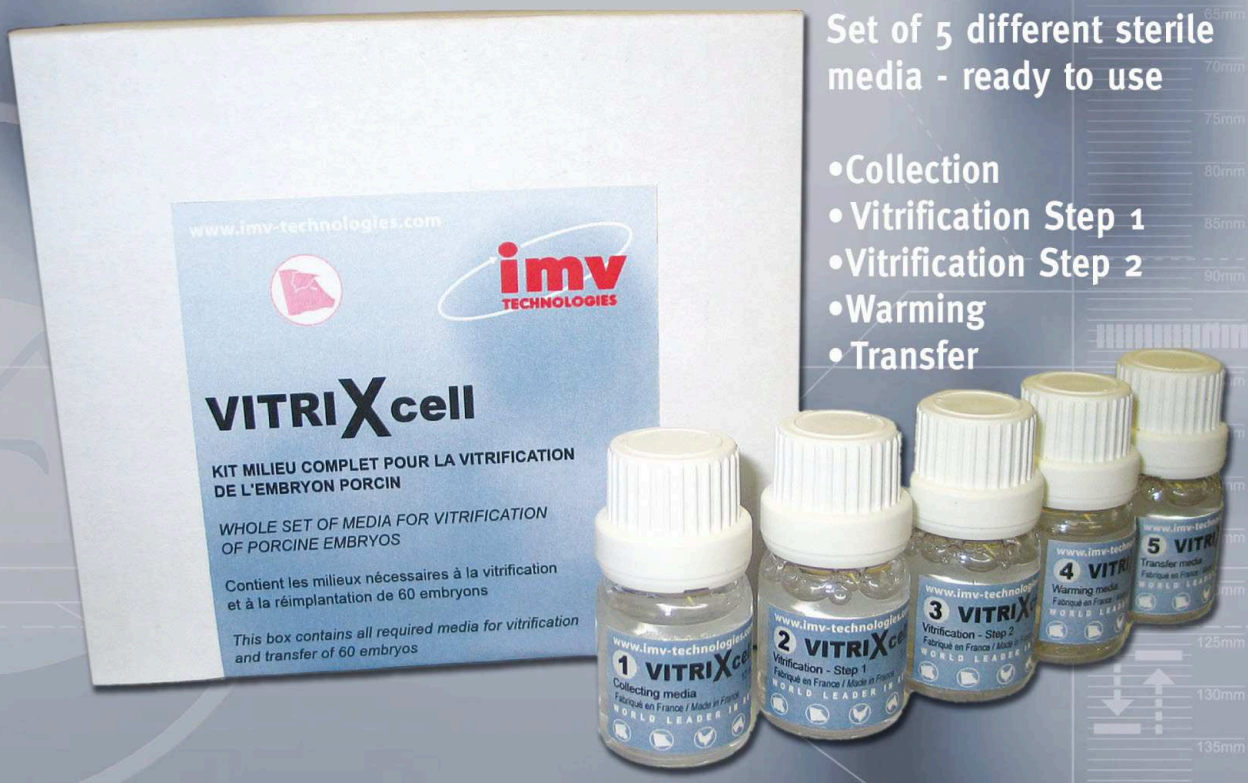
imv TECHNOLOGIES

VITRIXcell

Safe solution for Porcine Embryo Vitrification



Set of 5 different sterile media - ready to use

- Collection
- Vitrification Step 1
- Vitrification Step 2
- Warming
- Transfer

The only proven animal protein-free media for porcine embryo vitrification

Tested and developed with INRA

Set design for 3 collections and 3 ET

Completely safe ET if used in combination with the High Security Vitrification straws (HSV) developed by IMV

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VITRIXcell

IN VITRO EXPERIMENT

Trial: F. Botté, M. Plat, INRA UMR85 - PRC, 37380 Nouzilly, France

PROVEN RESULTS

Collected blastocysts (n=794) were allocated among 3 groups:
blastocysts not vitrified - control;
vitrified/warmed blastocysts with medium M1 or VITRIXcell.
The 3 groups were cultured in vitro for 3 days;
their viability was estimated as the percentage of embryos developing after 72 hours.

Results
No significant differences were noted between M1 and M2 groups.

M1: classical media with serum
M2 : VITRIXcell

TABLE 1: *In vitro* survival rates*

Groups	Number of blastocysts	Survival rate (%)
Control	162	100a
M1	287	62.4b
M2	345	65.2b

Letters a,b: P =0; Letters b,b: P = 0.51

IN VIVO EXPERIMENT

Trial: F. Botté, M. Plat, INRA UMR85 - PRC, 37380 Nouzilly, France

Vitrified/warmed blastocysts (n=491) with M1 and VITRIXcell were surgically transferred into recipients on day 5 of œstrus cycle. In each recipient, twenty blastocysts in mean were deposited to the upper end of one uterine horn. Pregnant gilts were slaughtered at D35 of pregnancy.
The numbers of total and viable foetuses were counted. The foetal survival rate was defined as the ratio of the number of viable fœtuses to the number of blastocysts transferred to all recipients.
The embryo viability in vitro, the pregnancy rate and the survival rate were compared using Fisher exact test. The Wilcoxon test was used to determine the effect of the 2 groups on the number of viable foetuses.

Results
No significant differences were detected in gestation rates and foetal survival rates between M1 and M2 groups.

TABLE 2: In vivo results after surgical transfer*

Parameters	M1	M2
Number of recipients	12	12
Gestation rate (%)	50a	58a
Number of viable fœtuses	6.7 ± 2.9b	6.3 ± 4.2b
Fœtal survival rate (%)	17c	18c

Letters a,a: P =1; Letters b,b: P = 0.83; Letters c,c: P = 0.86

*Réf. publication : F. Botté, M. Plat in Proceeding of the IPVS Congress, Durban, South Africa, 2008