

A4a. CERTIFICATE OF OOCYTE RECOVERY and IVM/IVF FOR TRANSGENIC EMBRYOS

Micro Injection

Breed _____ Recovery No. _____

Donor Name _____ No. _____
cc Ear Tag or Tattoo _____

Owner _____ Address _____

 Oocyte Recovery Date _____
Yr. Mo. Day

Signature _____ Firm _____ Code _____
Practitioner or Team Leader recovering Oocytes

Service Sire _____ No. _____
cc Breeding Date _____
 (Invitro Fert.)

Sire ___ of ___ I.D. Code _____ Freeze Date or Batch No. _____ Sexed Semen X or Y _____ Recovery Date _____
Yr. Mo. Day
 (Out of Culture-Zygote)

Details of the transgene introduced _____ Date of Pronuclear Injection _____
(Micro genes, artificial chromosomes, retroviral vectors, etc.) Yr. Mo. Day

Details of DNA modification Sperm _____
 Oocyte _____
 (Out of Culture-pre-transfer)

Use new Certificate for each bull used for IVF for one recovery Total Recovered _____
 Show use of more than one bull for one recovery as 1 of 3 etc. No. Cleaved/Degen. _____

Signature _____ Firm _____ No. Transferred _____
Leader of the Embryo Production Team responsible for IVM/IVF ET Code _____ No. Frozen _____

B4. CERTIFICATE OF EMBRYO TRANSFER OF TRANSGENIC EMBRYOS (see reverse side for coding instructions)
IF FROZEN

Date of Embryo Transfer _____ Surgical _____ Non-surgical _____ Other _____
Yr. Mo. Day Freeze Date on straw _____

if all trans. at one time Practitioner I.D. _____
 Straw No.'s _____

One Embryo was transferred to each of the following recipients unless it is noted that more than one was transferred.

RECIPIENT IDENTIFICATION		Breed Code	Days Since Estrus	Stage Code	Qual. Code	Straw No.	Embryo Transfer Date	Cell Line ID	Comments*
Ear Tag, Registration or Tattoo No.									
1.	_____	_____	_____	_____	_____	_____	_____	_____	_____
2.	_____	_____	_____	_____	_____	_____	_____	_____	_____
3.	_____	_____	_____	_____	_____	_____	_____	_____	_____
4.	_____	_____	_____	_____	_____	_____	_____	_____	_____
5.	_____	_____	_____	_____	_____	_____	_____	_____	_____
6.	_____	_____	_____	_____	_____	_____	_____	_____	_____
7.	_____	_____	_____	_____	_____	_____	_____	_____	_____
8.	_____	_____	_____	_____	_____	_____	_____	_____	_____
9.	_____	_____	_____	_____	_____	_____	_____	_____	_____
10.	_____	_____	_____	_____	_____	_____	_____	_____	_____

Signature _____ Firm _____
Technician/Practitioner or Team Leader that transferred the Embryos

ET Code _____ Phone () _____

*Use comment column for any special notations and/or identify the location of the opposite half of a divided embryo. Pregnancy can be noted.

CONDITIONS FOR COMPLETING EMBRYO CERTIFICATES

A4a. Complete one or more Certificates of Oocyte Recovery and IVM/IVF for Transgenic Embryos (Micro Injection) for each recovery. Precede registration numbers of donor dam and donor sire(s) with the International Standards Organization (ISO) three letter country codes (cc). The leader of the embryo production team or practitioner responsible for recovering the oocytes and signing the certificate is attesting to the fact that the female donor was identified with her official certificate of identification (Registration) and that the information is true and correct.

The leader of the embryo production team responsible for IVM/IVF of transgenic embryos signing the certificate is attesting to the fact that the complete name and number of the bull is shown with respective bull's identification code and freeze date or batch number shown on the straw from which frozen semen was taken. A new certificate must be completed for each bull used for IVF for one recovery that accurately describes DNA modification of sperm and/or oocytes shown and that all information shown is true and correct to the extent not guarded by patent or intellectual property rights.

B4. Certificate of Embryo Transfer of Transgenic Embryos will be completed to the extent that is necessary and/or appropriate to identify each recipient into which an embryo is transferred. If frozen embryos are transferred, the Certificate of Embryo Production will be completed by the responsible practitioner or by transferring from the original Certificate of Embryo Production or by attaching a copy. The practitioner or embryo production team leader signing the Certificate of Embryo Transfer is attesting to the accuracy and completeness of the identification of the embryos being transferred and the identity of the recipients into which the embryos are being transferred.

One copy of a complete Certificate of Embryo Transfer of Transgenic Embryos, with Certificate of Embryo Production, will be submitted to the appropriate breed organization or recording agency as required by the respective organization, which may require the record before resulting animals can be registered or officially identified. One copy should be provided to the owner.

Should any embryo in a recipient as identified hereon change ownership, it is important that the requirements of the respective breed organization or recording agency responsible for recording the identification of the new owner be followed. This may be required before resulting animals can be registered or officially identified. This would normally be the responsibility of the owner of record.

Use the following codes to describe the embryo, identify the breed, and identify the month in all dates.

STAGE OF DEVELOPMENT	QUALITY OF EMBRYOS	MANIPULATION OF EMBRYOS	January	JA
No. Stage	Code 1. Excellent or Good	N - Not Manipulated	February	FE
1 Unfertilized	Code 2. Fair	D - Divided	March	MR
2 2- to 12-cell	Code 3. Poor	F - Female by Biopsy	April	AP
3 Early Morula	Code 4. Dead or degenerating	M - Male by Biopsy	May	MY
4 Morula		U - Sex Undetermined by Biopsy	June	JN
5 Early Blastocyst	Refer to IETS Manual, Third Edition, Chapter 9, for description of codes.	Use comment column to describe other biopsies.	July	JY
6 Blastocyst			August	AU
7 Expanded Blastocyst			September	SE
8 Hatched Blastocyst			October	OC
9 Expanded Hatched Blastocyst			November	NO
			December	DE

SEXED SEMEN

X - Female Y - Male

BOVINE

AN - Aberdeen Angus	BZ - Bonsmara	GS - Gascone	MR - Marchigiana	RO - Rotbunte
AB - Abundance	CP - Campine Red Pied	GV - Gelbvieh	ME - Maremmana	SA - Salers
AF - Afrikaner	CN - Canadienne	GI - Gir	MI - Meuse Rhine Issel	SG - Santa Gertudis
AK - Ankole	CB - Charbray	GR - Groninger	MO - Montbeliard	SE - Senapol
AY - Ayrshire	CH - Charolais	GU - Guernsey	MG - Murray Grey	MS - Shorthorn (milking)
BA - Barzona	CA - Chianina	GZ - Guzera	NE - Nelore	SS - Shorthorn (beef - Scotch)
BE - Beefalo	DB - Danish Black & White	HC - Hays Converter	NG - Nguni	SP - Shorthorn (polled)
BF - Beef Friesian	DJ - Danish Jersey	HH - Hereford (horned)	NM - Normande	IS - Shorthorn (Illawarra)
BM - Beefmaster	RW - Danish Red & White	HP - Hereford (polled)	NR - Norwegian Red	SI - Simbrah
BB - Belgian Blue	DE - Devon	SH - Highland (Scotch Highland)	PA - Parthenais	SM - Simmental
BG - Belted Galloway	DR - Dexter	HO - Holstein	PI - Piedmont	DS - South Devon
BD - Blonde D'Aquitaine	DZ - Drakensberger	HY - Hybrid (Alberta Hybrid)	PR - Pie Rouge	SX - Sussex
BX - Boran	FP - East FLEMISH Red Pied	IB - Ibage	PZ - Pinzgauer	TA - Tarentaise
BO - Braford	ER - Eringer	IN - Indu Brasil	RA - Ranger	TG - Tasmanian Grey
BR - Brahman	FA - Flamand	JE - Jersey	AR - Red Angus	TL - Texas Longhorn
BH - Brahmental	FL - Fleckvieh	KB - Kobe (Wagyu)	RB - Red Brangus	TU - Tuli
BL - Braier	FR - Fribourg	LU - Luig	RD - Red Dane (Red Danish, Danish Red)	WB - Welsh Black
BN - Brangus	FB - Friesian (Belgian)	LM - Limousin	WW - Red Holstein	WF - West FLEMISH Red
BU - Braunvieh	DF - Friesian (Dutch)	LR - Lincoln Red	RP - Red Poll	XX - Crossbreds
SB - Brown Swiss (beef)	GA - Galloway (beef)	MA - Maine-Anjou	RN - Romagnola	
BS - Brown Swiss (dairy)	GD - Galloway (dairy)			

CAPRINE

AL - Alpine	AG - Angora	CH - Cashmere	KR - Kalahari Reds	NU - Nubian
TO - Toggenburg	SA - Saanen	BG - Boer	LN - La Mancha	SG - Savanna Goat

EQUINE

AS - American Saddlebred	CL - Clydesdale	MN - Morgan	QH - Quarter Horse	SF - Suffolk Punch
AP - Appaloosa	HA - Hackney (Horse)	PL - Palomino	SE - Shetland	TW - Tennessee Walking
AB - Arabian	HK - Hackney (Pony)	PE - Percheron	SI - Shire	TH - Thoroughbred
BL - Belgian	HU - Hunter	PN - Pinto	SN - Standardbred	WE - Welsh

PORCINE

YO - Yorkshire	DU - Duroc	BK - Berkshire	PE - Pietrain	LW - Large White (British)
LA - Landrace	LC - Lacombe	SO - Spotted	TM - Tamworth	LB - Large Black (British)
HA - Hampshire	PC - Poland Chine	CW - Chester White	WS - Wessex Saddleback	

OVINE

AN - Afrino	DM - Dohne Merino	IL - Ile de France	OX - Oxford	MM - S. African Mutton Merino	IETS 18 3/06
BP - Blackhead Persian	DO - Dorset	LE - Leicester	SP - Persian (Speckled/Skilder)	ST - Southdown	
BC - Border Cheviot	DR - Dormer	LI - Lincoln	RA - Rambouillet	SU - Suffolk	
CO - Columbia	DP - Dorper	ME - Merino	RM - Romnelet	VR - Van Rooy	
CR - Corriedale	FN - Finnish Landrace	MT - Montadale	SB - Scottish Blackface	WD - White Dorper	
DA - Damara	HA - Hampshire	NC - N. Country Cheviot	SR - Shropshire		