

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.

C4. The Certificate of Embryo Freezing of Transgenic Embryos will be completed with the Certificate of Embryo Production, whenever embryos are frozen. The practitioner or leader of the embryo production team signing the certificate is attesting to the identification of each embryo with container labeling as set forth within the Certificate, along with the accuracy of all other information.

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

When a frozen embryo changes 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.

When frozen embryos are exported, a special application for embryo export is submitted to the respective breed organization in the country from which embryos are exported, with the appropriate fee.

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		July	JY
6 Blastocyst	Edition, Chapter 9, for	Use comment column to describe	August	AU
7 Expanded Blastocyst	description of codes.	other biopsies.	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 Gerdutis
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
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	