

A1. CERTIFICATE OF EMBRYO RECOVERY or Oocyte Aspiration and IVM/IVF
 ACCOMMODATES NUCLEAR TRANSFER AND POOLED OOCYTES

Breed _____ Date of Aspiration _____
Yr. Mo. Day

Donor 1 Name _____ No. _____
cc

Donor 2 Name _____ No. _____
cc

Donor 3 Name _____ No. _____
cc

Owner _____ Address _____

Service Sire _____ No. _____
cc

ID Code _____ Freeze Date or Batch No. _____ Sexed Semen X or Y _____

Service Sire _____ No. _____
cc

ID Code _____ Freeze Date or Batch No. _____ Sexed Semen X or Y _____

Signature _____ Firm _____
Practitioner or Team Leader recovering Embryos or Oocytes and responsible for IVF/IVM

ET Code _____

Onset _____ AM
 Estrus Date _____ PM
(Invitro Fert.) Yr. Mo. Day

Breeding Date _____
(Out of Culture) Yr. Mo. Day

Recovery Date _____
 Recovery No. _____

Total Recovered _____
 No. Cleaved/Degen. _____
 No. Unfertilized _____
 No. Transferred _____
 No. Frozen _____
 No. Cloned _____

C1. CERTIFICATE OF FREEZING (see reverse side for coding instructions)

Type of Container: Straw _____ Other _____

Each container labeled to show firm code, breed, reg. no. of donor, freeze date and straw no.

Cane No.	Straw No.	No. Emb./ Straw	No. X Washed	Trypsin Treated	Code Stage	Code Quality	Zona Intact	Embryo Manipulated N,D,F,M or U	----- For NT Embryos -----			Comments
									ETN No.	Recovery No.	NT Line	
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____

Time from recovery to onset of freezing _____ (hrs.) Cryoprotectant and concentration, equilibration, final molality and cooling procedure

How Frozen: Seed Temp. _____ Cooling Rate _____ Plunge Temp. _____ Other _____

Recommended method of thawing and dilution _____

Signature _____ Firm _____
Practitioner or Leader of the Embryo Production Team Freezing the Embryos

ET Code _____ Phone () _____

CONDITIONS FOR COMPLETING EMBRYO CERTIFICATES

- A1. Complete one or more Certificates of Embryo Recovery/Oocyte Aspiration 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 responsible practitioner or leader of the embryo production team signing this certificate is attesting to the fact that the donor dam was identified with her certificate of registration, that the service sire information was taken from a written record of services or IVF and all the information is true and correct.
- C1. Certificate of Freezing will be completed, with the Certificate of Embryo Recovery, whenever embryos are frozen. The practitioner or leader of the embryo production team signing this certificate is attesting to the identification of each embryo, with container labelling, as set forth within the Certificate, along with the accuracy of all other information.

The complete Certificate of Embryo Transfer with Certificate of Freezing will be submitted to the appropriate breed office or as required by the respective breed organization, which may require the record before resulting offspring can be registered or officially identified. One copy will be provided to the owner.

When a frozen embryo changes ownership, it is important that the requirements of the respective breed organization for recording the identification of the new owner be followed. This may be required before resulting offspring 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 will be submitted to the respective breed office, with the appropriate fee.

1. **NT Line** - A two-digit number that identifies an originally recovered parent embryo. These will be numbered sequentially with two digits within a numbered recovery.
2. **Recovery Number** - Recoveries will be numbered sequentially by each practitioner or embryo transfer company regardless of breed. This is a four- or five-digit number, that could go to five, and the word "recovery" will be used in preference to the word "flush". No other word can be used in its place, such as "certificate number".
3. **ETN Number** - Is the number assigned each embryo in the sequence of production through nuclear transfer within one NT line regardless of generation.
4. **Unique Number of Straw for NT embryos** - This will include the ETN number followed by the letter "N" in turn followed by the Recovery Number and with this followed by the NT line. The ETN number will be at the top of the straw reading from left to right. The remainder of the existing recommended straw-labeling procedure will remain in place.

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