Owner Address	
Occyte DNA modification?   Yes   No	
Occyte DNA modification? □ Yes □ No	
Recover cocyte DNA modification? □ Yes □ No	
gnature Firm Code gnature Firm No. Coc growth of the Embryo Production Freeze Date or Batch No. Sexed Semen X or Y get alls of DNA modification? Qres No If Yes, Date of Modification Invitro Fire growth ow use of more than one bull for one recovery as 1 of 3 etc. No. Clea gnature Leader of the Embryo Production Fear responsible for INVITY FIRM No. Tran Leader of the Embryo Production Fear responsible for INVITY FIRM No. Tran No. Tran Cane Straw No. Embryos/No. X Trypsin Code Code Zona No. No. Straw Washed Treated Stage Quality Intact Cell Line ID	v Doto
gnature	y Date Yr. Mo. Day
gnature	
Precilioner or Team Leader recovering Occytes  re _ of _ I.D. Code Freeze Date or Batch No Sexed Semen X or Y  perm DNA modification? □ Yes □ No	Yr. Mo. Day
Precilioner or Team Leader recovering Occytes  re _ of _ I.D. Code Freeze Date or Batch No Sexed Semen X or Y  perm DNA modification? □ Yes □ No	
re of I.D. Code Freeze Date or Batch No Sexed Semen X or Y	
re_ of _ I.D. Code Freeze Date or Batch No Sexed Semen X or Y lerm DNA modification?	
perm DNA modification?	
Invitro F. Breeding Cocyte   See new Certificate for each built used for IVF for one recovery sow use of more than one built for one recovery as 1 of 3 etc.  Total Re No. Clear gnature   Leader of the Embryo Production Team responsible for INMINERICSI   ET Code   No. Froz  4. CERTIFICATE OF EMBRYO FREEZING OF TRANSGENIC EMBRYOS (see reverse side per of Container: Straw Other  Container: Straw Other  No. Froz  Other  No. Trapsin Code Code Zona  No. No. No. No. Straw Washed Treated Stage Quality Intact Cell Line ID	
Breeding Occyte	Yr. Mo. Da
Occyte    Cout of C se new Certificate for each bull used for IVF for one recovery Recover now use of more than one bull for one recovery as 1 of 3 etc.  Total Re No. Clea gnature    Firm	ert./ ICSI
se new Certificate for each bull used for IVF for one recovery now use of more than one bull for one recovery as 1 of 3 etc.  Total Re No. Clear  gnature  Leader of the Embryo Production Team responsible for IVMIVERCSI  ET Code  Firm  No. Tran No. Froz  44. CERTIFICATE OF EMBRYO FREEZING OF TRANSGENIC EMBRYOS (see reverse side pe of Container: Straw  Other  ach container labeled to show firm code, breed, reg. no. of donor, freeze date and straw no.  Cane No.  Straw  No. Embryos/ No. X  Trypsin  Code  Quality  Intact  Cell Line ID  me from recovery to onset of freezing  (hrs.) Cryprotectant and concentration, equilibration, final molality as the form recovery to onset of freezing  (hrs.) Cryprotectant and concentration, equilibration, final molality as the form recovery to onset of freezing  Total Re No. Class  No. Trans  No. Trans  Recover  No. Trans  No. Trans  Recover  No. Trans  No. Trans  No. Trans  Treated  Trea	Yr. Mo. E
Total Re No. Clea gnature Leader of the Embryo Production Team responsible for IVM/IVF/ICSI ET Code No. Tran No. Froz  44. CERTIFICATE OF EMBRYO FREEZING OF TRANSGENIC EMBRYOS (see reverse side pe of Container: Straw Other ach container labeled to show firm code, breed, reg. no. of donor, freeze date and straw no.  Cane Straw No. Embryos/ No. X Trypsin Code Code Zona No. No. Straw Washed Treated Stage Quality Intact Cell Line ID  me from recovery to onset of freezing (hrs.) Cryprotectant and concentration, equilibration, final molality as	Culture)
gnature	y Date covered
gnature	ved/Degen
A. CERTIFICATE OF EMBRYO FREEZING OF TRANSGENIC EMBRYOS (see reverse side of container: Straw Other ach container labeled to show firm code, breed, reg. no. of donor, freeze date and straw no.  Cane Straw No. Embryos/ No. X Trypsin Code Code Zona No. No. Straw Washed Treated Stage Quality Intact Cell Line ID  me from recovery to onset of freezing (hrs.) Cryprotectant and concentration, equilibration, final molality as the form recovery to onset of freezing (hrs.) Cryprotectant and concentration, equilibration, final molality as the form recovery to onset of freezing (hrs.) Cryprotectant and concentration, equilibration, final molality as the form recovery to onset of freezing (hrs.) Cryprotectant and concentration, equilibration, final molality as the form recovery to onset of freezing (hrs.) Cryprotectant and concentration, equilibration, final molality as the form recovery to onset of freezing (hrs.) Cryprotectant and concentration, equilibration, final molality as the form recovery to onset of freezing (hrs.) Cryprotectant and concentration, equilibration, final molality as the form recovery to onset of freezing (hrs.) Cryprotectant and concentration, equilibration, final molality as the form recovery to onset of freezing (hrs.) Cryprotectant and concentration, equilibration, final molality as the form recovery to onset of freezing (hrs.) Cryprotectant and concentration, equilibration, final molality as the form recovery to onset of freezing (hrs.) Cryprotectant and concentration, equilibration, final molality as the form recovery to onset of freezing (hrs.) Cryprotectant and concentration, equilibration, final molality as the form recovery to onset of freezing (hrs.) Cryprotectant and concentration (hrs.) Cryprotectant and concentration (hrs.) Cryprotectant and concentration	sferred
A. CERTIFICATE OF EMBRYO FREEZING OF TRANSGENIC EMBRYOS (see reverse side ope of Container: Straw Other ach container labeled to show firm code, breed, reg. no. of donor, freeze date and straw no.  Cane Straw No. Embryos/ No. X Trypsin Code Code Zona Intact Cell Line ID  Treated Stage Quality Intact Cell Line ID  me from recovery to onset of freezing (hrs.) Cryprotectant and concentration, equilibration, final molality as the concentration of the con	en
	Comments
ow Frozen: Seed Temp Cooling Rate Plunge Temp Other	ind cooling proced
ecommended method of thawing and dilution	
gnature Firm Fractitioner or Leader of the Embryo Production Team Freezing the Embryos	

## **CONDITIONS FOR COMPLETING EMBRYO CERTIFICATES**

A4. Complete one or more Certificates of Oocyte Recovery and IVM/IVF for Transgenic Embryos (Oocyte or Sperm Mediated Transgenesis) 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 be submitted to the respective breed organization in the country from which embryos are exported, with the appropriate fee.

MANURUU ATIONI OF EMPRIVOS

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

OLIALITY OF EMPRYOR

CTACE OF DEVEL OBMENT

STAGE OF DEVELOPMENT			TV	QUALITY	OF EMBRYOS	MANIPULATION OF EMBRYOS		January JA	
	No.	Stage		Code 1. I	Excellent or Good	N - Not Manipulated		February	FE
	1	Unfertilized		Code 2. I	Fair	D - Divided		March	MR
	2	2- to 12-cell			Poor	F - Female by Biopsy	,	April	AP
	3	Early Morula			Dead or degenerating	M - Male by Biopsy		May	MY
	4	Morula		0000 1. 1	soud of dogonorating	U - Sex Undetermine	d by Rioney	June	JN
	5			Pofor to IE	TC Manual Third	0 - Sex Officerefffille	а бу Бюрзу	July	JY
		Early Blastocyst			TS Manual, Third	Use comment column	to describe	August	AU
	6	Blastocyst			napter 9, for	other biopsies.		September	SE
	7	Expanded Blastoc		description	n of codes.	ourse properties.		October	OC
	8	Hatched Blastocys				SEXED SEMEN		November	NO
	9	Expanded Hatched	d Blas	tocyst		X - Female Y - Ma	ale	December	DE
	BOVINE					7			
		berdeen Angus		- Bonsmara	GS - Gascone	MR - Marchigiana		- Rotbunte	
		bondance frikaner		<ul><li>Campine Red Pied</li><li>Canadienne</li></ul>	GV - Gelbvieh	ME - Maremmana		- Salers	
		nkole		- Canadienne - Charbray	GI - Gir GR - Groninger	<ul> <li>MI - Meuse Rhine Iss</li> <li>MO - Montbeliard</li> </ul>		<ul><li>Santa Gertudis</li><li>Senapol</li></ul>	
		yrshire		- Charolais	GU - Guernsey	MG - Murray Grey		- Shorthorn (milking)	
		arzona		- Chianina	GZ - Guzera	NE - Nelore		- Shorthorn (beef - So	cotch)
-	BE - B	eefalo	DB	- Danish Black & White	HC - Hays Converter	NG - Nguni		- Shorthorn (polled)	,
		eef Friesian		<ul> <li>Danish Jersey</li> </ul>	HH - Hereford (horned)	NM - Normande	IS	- Shorthorn (Illawarra	ı)
		eefmaster		- Danish Red & White	HP - Hereford (polled)	NR - Norwegian Red		- Simbrah	
		elgian Blue		- Devon	SH - Highland (Scotch	PA - Parthenais		- Simmental	
		elted Galloway londe D'Aquitaine		<ul><li>Dexter</li><li>Drakensberger</li></ul>	Highland) HO - Holstein	PI - Piedmont PR - Pie Rouge		<ul><li>South Devon</li><li>Sussex</li></ul>	
	3X - B			- East Flemish Red Pied	HY - Hybrid (Alberta Hybrid)			- Tarentaise	
		raford		- Eringer	IB - Ibage	RA - Ranger		- Tasmanian Grey	
I	BR - Bi	rahman	FA	- Flamand	IN - Indu Brasil	AR - Red Angus		- Texas Longhorn	
		rahmental		- Fleckvieh	JE - Jersey	RB - Red Brangus		- Tuli	
	BL - Bi			- Fribourg	KB - Kobe (Wagyu)	RD - Red Dane (Red		- Welsh Black	
		rangus		<ul><li>Friesian (Belgian)</li><li>Friesian (Dutch)</li></ul>	LU - Luing	Danish Red)		- West Flemish Red	
		raunvieh rown Swiss (beef)		- Galloway (beef)	LM - Limousin LR - Lincoln Red	WW - Red Holstein RP - Red Poll	XX	- Crossbreds	
		rown Swiss (dairy)		- Galloway (dairy)	MA - Maine-Anjou	RN - Romagnola			
	CAPRINE			, , ,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
	AL - Al			- Angora	CH - Cashmere	KR - Kalahari Reds	NU	- Nubian	
		oggenburg	SA	- Saanen	BG - Boer	LN - La Mancha	SG	<ul> <li>Savanna Goat</li> </ul>	
	EQUINE			<b>.</b>					
		merican Saddlebred		- Clydesdale	MN - Morgan	QH - Quarter Horse		- Suffolk Punch	
		ppaloosa rabian		<ul><li>Hackney (Horse)</li><li>Hackney (Pony)</li></ul>	PL - Palomino PE - Percheron	SE - Shetland SI - Shire	TH	<ul><li>Tennessee Walking</li><li>Thoroughbred</li></ul>	I
		elgian		- Hunter	PN - Pinto	SN - Standardbred		- Welsh	
	PORCINE				THE THIE	Old Oldinadiabled	***	***************************************	
		orkshire	DU	- Duroc	BK - Berkshire	PE - Pietrain	LW	- Large White (British	1)
-	_A - La	andrace	LC	- Lacombe	SO - Spotted	TM - Tamworth	LB	- Large Black (British	ı)
-	HA - H	ampshire	PC	<ul> <li>Poland Chine</li> </ul>	CW - Chester White	WS - Wessex Saddlet	oack		
	OVINE								
	AN - Af			- Dohne Merino	IL - Ile de France	OX - Oxford	MM	- S. African Mutton M	lerino 🙎
		ackhead Persian		- Dorset	LE - Leicester	SP - Persian (Speckled	Johnson 31	- Southdown	(7)
		order Cheviot olumbia		- Dormer - Dorper	LI - Lincoln ME - Merino	RA - Rambouillet RM - Romnelet		<ul><li>Suffolk</li><li>Van Rooy</li></ul>	_
		orriedale		- Finnish Landrace	MT - Montadale	SB - Scottish Blackfa		- White Dorper	Š T
		amara		- Hampshire	NC - N. Country Cheviot	SR - Shropshire		=	IETS