B4. CERTIFICATE OF EMBRYO TRANSFER OF TRANSGENIC EMBRYOS (see reverse side for coding instru	Breed:			CE	LL LINE	IDENTIFIC	ATION:		Sex: 🗆 M 🗅
No: Occupie Identification No: No: Occupie Identification No: No: Occupie Identification No: No: Occupie Identification Identification No: Occupie Identification Identi	Production of cell line must have been do	cumente	d and rep	oorted to	record a	gency on Fo	rm A4b1 (Certificat	e of Source of Nuclear DNA - 0	Cell Line Identificatio
Date Enucleated:   No Ficzar:   Fire:   Firm:	dentification of Animal from which O	ocytes v	vere asp	irated:					
Date Enucleated:    Total Stanton Not:   Total Stanton Act   Total	Name:			_ No.: _			Breed:	Oocyte Recovery Date:	Year Month Day
Date of Nuclear Transfer:    Passage Number:   Total Visible Embryos Produced:   No Frozen:   No. Transferred:   No. No. No. No.   No. No. No.   No. No. No.   No. No. No.   No. No. No.   No. No. No.   No. No. No.   No. No. No.   No. No. No.   No. No. No.   No. No. No.   No. No. No.   No. No. No.   No. No. No.   No. No. No.   No. No. No.   No. No. No.   No. No. No.   No. No. No.   No. No. No. No.   No. No. No. No. No.   No. No. No. No. No. No. No. No. No. No.	OR Oocvte Identification No:							Date Enucleated:	Year Month Day
Passage Number: Total Vlable Embryos Produced: No Frozer: Freeze Date: No. Transferred:  Signature: Leader of Embryo Produccion Team  Firm:  ET Code: Phone: ( )   B4. CERTIFICATE OF EMBRYO TRANSFER OF TRANSGENIC EMBRYOS (see reverse side for coding instru  IF FROZEN  B4. CERTIFICATE OF EMBRYO TRANSFER OF TRANSGENIC EMBRYOS (see reverse side for coding instru  IF FROZEN  Freeze Date on straw Freeze Date on straw Freeze Date on straw 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 Ear Tag, Registration or Tattoo No.  Registration Or Tattoo No.  Code Since Stage Code Straw Code No.  Code Code Since Code Code Since Code Sin	laken	from form A40	02					Date of Nuclear Transfer:	Year Month Day
Signature:									
Signature:								Total Viable Embryos Pro	duced:
Signature: Lassier of Embryo Production Team								No Frozen:	
Signature: Lassier of Embryo Production Team								Freeze Date:	
B4. CERTIFICATE OF EMBRYO TRANSFER OF TRANSGENIC EMBRYOS (see reverse side for coding instru  IF FROZEN  Presze Date  on straw    Presze Date  on straw   Presze D									
B4. CERTIFICATE OF EMBRYO TRANSFER OF TRANSGENIC EMBRYOS (see reverse side for coding instru  IF FROZEN  IF FR	Signature:			Firm:					
B4. CERTIFICATE OF EMBRYO TRANSFER OF TRANSGENIC EMBRYOS (see reverse side for coding instru IF FROZEN    IF FROZEN				_					)
Comments*  RECIPIENT IDENTIFICATION Ear Tag, Registration or Tattoo No.  Ear Tag, Registration Freed Code Since Estrus  Recipients unless it is noted that more than one was transferred.  Ear Tag, Registration or Tattoo No.  Ear Tag,	Embryo Transfer Surgical Non-sur			Non-surg	gical Other		on straw Practitioner I.D.		
2.         3.         4.         5.         6.         7.         8.         9.         10.         11.         12.	Ear Tag, Registration	Breed	Since				Transfer	Cell Line ID	Comments*
3	1								
4.	2								
5.	3								
6	4								
7.	5								
8.	6								
9	7								
10	8								
11	9								
12.	10								
	11								
Cignoturo Cian	12								
Signature Firm	Signature	u that to	formed the F	na h. us a -		Firm			

A4b3, CERTIFICATE OF TRANSGENIC EMBRYO PRODUCTION FROM CELL LINE

Page \_\_\_ of \_\_\_

<sup>\*</sup>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

A4b3. Complete one or more Certificates of Transgenic Embryo Production From Cell Line for each production of embryos from one cell line. The leader of the embryo production team responsible for identifying the breed, the cell line, the oocyte batch number taken from A4b1 and the procedure record set forth is attesting to the accuracy of all information when signing this form.

If oocytes are collected from a registered/identified female, precede registration number with the International Standards Organization (ISO) three letter country code (cc). The person signing the form is certifying that such female was identified with her Certificate of Registration/Identification.

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.

**MANIPULATION OF EMBRYOS** 

January

JA

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

**QUALITY OF EMBRYOS** 

STAGE OF DEVELOPMENT

STAGE OF DEVELOR WIL		OI LINDICIOS	MANI CLATION OF LINDS	January	JA
No. Stage	Code 1. E	excellent or Good	N - Not Manipulated	February	FE
1 Unfertilized	Code 2. F	air	D - Divided	March	MR
2 2- to 12-cell	Code 3. F		F - Female by Biopsy	April	AP
				•	MY
<ol><li>Early Morula</li></ol>	Code 4. L	Dead or degenerating	M - Male by Biopsy	May	
4 Morula			U - Sex Undetermined by Bio	opsy June	JN
5 Early Blastocyst	Refer to IF	TS Manual, Third	·	July	JY
6 Blastocyst		apter 9, for	Use comment column to des	scribe August	AU
			other biopsies.	September	SE
7 Expanded Blastor	•	of codes.	5e. 5.6ps.55.	October	OC
8 Hatched Blastocy	st		OFVED OFMEN	November	NO
9 Expanded Hatche	ed Blastocyst		SEXED SEMEN	December	DE
	a = .ae.ee, e.		X - Female Y - Male	December	DL
BOVINE					
AN - Aberdeen Angus	BZ - Bonsmara	GS - Gascone	MR - Marchigiana	RO - Rotbunte	
AB - Abondance	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 - S	cotch)
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	a)
BM - Beefmaster	RW - Danish Red & White	HP - Hereford (polled)	NR - Norwegian Red	SI - Simbrah	
BB - Belgian Blue	DE - Devon	SH - Highland (Scotch	PA - Parthenais	SM - Simmental	
BG - Belted Galloway	DR - Dexter	Highland)	PI - Piedmont	DS - South Devon	
BD - Blonde D'Aquitaine	DZ - Drakensberger FP - East Flemish Red Pied	HO - Holstein	PR - Pie Rouge	SX - Sussex	
BX - Boran BO - Braford		HY - Hybrid (Alberta Hybrid)	PZ - Pinzgauer	TA - Tarentaise	
BO - Braford BR - Brahman	ER - Eringer FA - Flamand	IB - Ibage	RA - Ranger	TG - Tasmanian Grey	
BH - Brahmental	FL - Fleckvieh	IN - Indu Brasil JE - Jersey	AR - Red Angus	TL - Texas Longhorn TU - Tuli	
BL - Braler	FR - Fribourg	JE - Jersey KB - Kobe (Wagyu)	RB - Red Brangus RD - Red Dane (Red Danish,	TU - Tuli WB - Welsh Black	
BN - Brangus	FB - Friesian (Belgian)	LU - Luing	Danish Red)	WF - West Flemish Red	
BU - Braunvieh	DF - Friesian (Dutch)	LM - Limousin	WW - Red Holstein	XX - Crossbreds	
SB - Brown Swiss (beef)	GA - Galloway (beef)	LR - Lincoln Red	RP - Red Poll	XX - Clossbleus	
BS - Brown Swiss (dairy)	GD - Galloway (dairy)	MA - Maine-Anjou	RN - Romagnola		
CAPRINE	Camerray (daily)	Walle Alljed	Tit Ttomagnola		
AL - Alpine	AG - Angora	CH - Cashmere	KR - Kalahari Reds	AUT ALTE	
TO - Toggenburg	SA - Saanen	BG - Boer	LN - La Mancha	NU - Nubian	
	SA - Saarieri	BG - BOEI	LIN - La IVIAITCHA	SG - Savanna Goat	
EQUINE AS - American Saddlebred	CL - Clydesdale	MN Margan	Oll Overter Heres	CE Cuffalls Dun ab	
AP - Appaloosa	HA - Hackney (Horse)	MN - Morgan PL - Palomino	QH - Quarter Horse SE - Shetland	SF - Suffolk Punch	_
AB - Arabian	HK - Hackney (Pony)	PE - Percheron	SI - Shire	TW - Tennessee Walking TH - Thoroughbred	,
BL - Belgian	HU - Hunter	PN - Pinto	SN - Standardbred	WE - Welsh	
· ·	110 - Hunter	FIN - FIIILO	Siv - Standardbred	VVL - VVEISII	
PORCINE	DII Duna	BK - Berkshire	DE Distrais	LW - Large White (British	<b>~</b> \
YO - Yorkshire	DU - Duroc	SO - Spotted	PE - Pietrain TM - Tamworth	LB - Large Black (British	
LA - Landrace	LC - Lacombe	CW - Chester White		LB - Large Black (Britisi	1)
HA - Hampshire	PC - Poland Chine	CVV - Chester Willie	WS - Wessex Saddleback		
OVINE					
AN - Afrino	DM - Dohne Merino	IL - Ile de France	OX - Oxford	MM - S. African Mutton M	terino g
BP - Blackhead Persian	DO - Dorset	LE - Leicester	SP - Persian (Speckled/Skilder)	O i Codindown	(7)
BC - Border Cheviot	DR - Dormer	LI - Lincoln	RA - Rambouillet	SU - Suffolk	Δ1
CO - Columbia	DP - Dorper	ME - Merino	RM - Romnelet	VR - Van Rooy	22
CR - Corriedale	FN - Finnish Landrace	MT - Montadale	SB - Scottish Blackface	WD - White Dorper	IETS 22
DA - Damara	HA - Hampshire	NC - N. Country Cheviot	SR - Shropshire		=