A3b. CER	RTIFICATE	OF EMB	RYO PI	RODU	CTIO	N FROI	M CEL	L LINE			Page of
Breed:					CELL LINE IDENTIFICATION:						
Cell Line Source Animal (does not apply to embryo or fetal cells)					Name Reg. No						<u></u>
Production of o	cell line must ha	ave been docun	nented and	reported	to record	d agency o	n Form A	A3 (Certificate	e of Source of Nuc	elear DNA - Cell Li	ne Identification)
Identification	of Animal fron	n which Oocyt	es were as	spirated:							
Name:				No.:				Breed:	_ Oocyte Recov	ery Date:	Month Day
OR Oocyte Ide	entification No:	Taken from for	m A3a						_ Date Enucleate	ed:	Month Day
									Date of Nuclea	ar Transfer:	r Month Day
									Passage Num	ber:	
									Total Viable E	mbryos Produced	:
									Freez	e Date:	Month Day
									No. Transferred	d:	
	Leader of Embryo Pi			Firm	n:						
								ET Code: _		Phone: ( )	
Cane No.	r labeled to sho  Straw  No.	No. Emb./ Straw	No. X	Trypsin	Code	Code Quality	Zona Intact	Ce	ell Line ID	Com	ments
				·							
Time from r	ecovery to on	set of freezing	9	(hrs.)	Cryprot	ectant an	d conce	ntration, equ	uilibration, final	molality and cod	oling procedure
How Frozen:	Seed Temp	oawing and dilut		ng Rate _		Plu	nge Tem	p	Other		
Signature	Practitioner or Lead	er of the Embryo Pro	oduction Team	n Freezing the	Embryos	Fir	m				

ETCode\_\_\_\_\_ Phone ( )\_\_\_\_\_

## CONDITIONS FOR COMPLETING EMBRYO CERTIFICATES

- A3b. Complete one or more certificates of embryo production 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 A3a and the procedure record set forth, is attesting to the accuracy of all information when signing this form. Precede registration numbers with the International Standards Organization (ISO) three letter country codes (cc).
- C3. Certificate of Embryo Clone Freezing will be completed, with the Certificate of Embryo Production, 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 labeling as set forth within the Certificate, along with the accuracy of all other information.

One copy of a complete Certificate of Embryo Clone Transfer with Certificate of Embryo Clone Freezing is submitted to the appropriate breed organization 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 to be submitted to the respective breed organization in the country from which 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** January JA Code 1. Excellent or Good No. Stage February FE Code 2. Fair MR 1 Unfertilized March 2- to 12-cell Code 3. Poor April ΑP 2 MY Mav 3 Early Morula Code 4. Dead or degenerating June JN 4 Morula July JΥ Early Blastocyst Refer to IETS Manual, Third 5 August AU Edition, Chapter 9, for 6 Blastocyst September SE **Expanded Blastocyst** description of codes. 7 October OC NO DE

8 Hatched Blastocy	rst			November NO				
9 Expanded Hatched Blastocyst								
·	•			December DE				
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 CB - Charbrav	GI - Gir	MI - Meuse Rhine Issel	SG - Santa Gertudis				
AK - Ankole AY - Avrshire	CB - Charbray CH - Charolais	GR - Groninger	MO - Montbeliard	SE - Senapol				
AY - Ayrshire BA - Barzona	CA - Chianina	GU - Guernsey GZ - Guzera	MG - Murray Grey NE - Nelore	MS - Shorthorn (milking) SS - Shorthorn (beef - Scotch)				
BE - Beefalo	DB - Danish Black & White	HC - Hays Converter	NG - Nguni	SS - Shorthorn (beef - Scotch) 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	PA - Parthenais	SM - Simmental				
BG - Belted Galloway	DR - Dexter	Highland)	PI - Piedmont	DS - South Devon				
BD - Blonde D'Aquitaine	DZ - Drakensberger	HO - Holstein	PR - Pie Rouge	SX - Sussex				
BX - Boran	FP - East Flemish Red Pied	HY - Hybrid (Alberta Hybrid)	PZ - Pinzgauer	TA - Tarentaise				
BO - Braford	ER - Eringer	IB - Ibage	RA - Ranger	TG - Tasmanian Grey				
BR - Brahman	FA - Flamand	IN - Indu Brasil	AR - Red Angus	TL - Texas Longhorn				
BH - Brahmental	FL - Fleckvieh	JE - Jersey	RB - Red Brangus	TU - Tuli				
BL - Braler	FR - Fribourg	KB - Kobe (Wagyu)	RD - Red Dane (Red Danish,	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					
BS - Brown Swiss (dairy)	GD - Galloway (dairy)	MA - Maine-Anjou	RN - Romagnola					
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)				

CW - Chester White - Poland Chine HA - Hampshire WS - Wessex Saddleback OVINE ΑN Afrino DM - Dohne Merino - Ile de France OX Oxford MM - S. African Mutton Merino Blackhead Persian RP 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 FΝ Finnish Landrace Montadale Scottish Blackface - White Dorper MT SB WD - Damara - N. Country Cheviot Hampshire Shropshire