

Conventional Embryo Conception Rate Guarantee

Overview

Conventional (in vivo) embryos advertised on AngusSemen.com and sold by Bridgewater, LLC (“Seller”) are a mix of Grade 1 and Grade 2 embryos and come with a 50% conception rate guarantee when purchased in even denominations of four or more embryos. The conception rate guarantee for purchases of more than four embryos in an odd denomination will be rounded down. For example, for a purchase of four embryos the guarantee will be two pregnancies and for a purchase of five embryos the guarantee will also be two pregnancies. On average, Seller would expect properly transferred conventional Grade 1 and 2 embryos to achieve a higher than 50% conception rate. This guarantee is offered to provide the Buyer of the embryos with a high degree of confidence in the quality of the embryos to be purchased and a short set of guidelines that Seller believes will maximize the likelihood of transfer success.

All embryos sold by Seller are collected by technicians holding the Certified professional designation by the American Embryo Transfer Association (“AETA”). The embryos are collected, frozen and prepared for shipment to Buyer according to professional standards accepted as industry best practices. *This guarantee is made by Seller alone and is in no way, shape or form a guarantee from any third party service provider, including technicians that may have provided services to Seller.*

For additional information, please contact Bridgewater, LLC owner John Melton by phone or text at 561-315-1074 (mobile) or email at John@AngusSemen.com.

Buyer Responsibilities

- Embryos must be transferred by an embryologist certified by the AETA. A list of certified embryologists can be found online at <http://www.aeta.org>.
- Embryos must be transferred within one calendar year of the date of purchase.
- Transferring embryologist should adhere to standards as recommended by the AETA or the International Embryo Transfer Society and record details of transfers on a standard form such as the “Certificate of Embryo Recovery / Certificate of Embryo Transfer” (“AB”). A copy of the AB form is included herein for reference.
- Within 90 days following date of transfer, Buyer must have a licensed veterinarian pregnancy check recipient cows and determine conception status. If the conception rate of recipients receiving purchased embryos is lower than 50%, Buyer should submit written record of the pregnancy status of all recipients that received purchased embryos to Seller within 30 days of pregnancy check. The veterinarian conducting the pregnancy check must sign the written record and include their contact information. Unique identification numbers of all recipients must match documentation verifying transfers as outlined above (e.g. AB form).

Seller Responsibilities

In the event that Buyer conforms with above Buyer Responsibilities and does not achieve a 50% or greater conception rate on conventional embryos purchased, Buyer may select one of the following options, A or B, below as sole and complete compensation.

- A. If available, Buyer may select one or more comparable embryos in Sellers inventory to give Buyer a reasonable probability of achieving total pregnancies equal to 50% of the embryos purchased on the original purchase date; *OR*,
- B. Buyer may request a refund equal to the number of embryos required to bring the conception rate up to 50%. Buyer’s average per embryo cost will be multiplied by the number of embryos required to bring the conception rate to 50%. For example, if eight embryos are purchased and transferred and three pregnancies result, Seller will refund Buyer an amount equal to the average cost of two embryos purchased. If no pregnancies result, Buyer may request a refund for all embryos purchased.

Matching Recipients to Embryo Stage

As of 09/01/2022

Summary: Matching the stage of an embryo to be transferred with the time of a recipient's standing heat can improve conception rates. The basic concept here is to approximately match the elapsed time since a recipient's observed heat with the age of the embryo at the time of freezing. Such matching need not be perfect, but special care is recommended with an early stage or late stage embryo if possible. The stage of an embryo can be found on the donor collection recovery sheet (commonly known as an "ABC Certificate").

The table below serves as a guide that we follow in our own embryo transfer program. We strongly urge you to work closely with your embryo transfer service provider to manage your recipient synchronization and transfer process. As part of this process, we recommend that you communicate with your ET service provider prior to recipient synchronization regarding the stage (or age) of the embryos.

Recipient Days Post Standing Heat	Ideal Embryo Stage For Transfer
5.5	3
6.0	4
6.5	4
7.0	5
7.5	6
8.0	7

Note: IVF embryos are commonly frozen at a later stage (older age) such as Stage 6 or 7. Ideally, we would suggest that IVF transfers be matched with recipients that are 7.5 to 8 days post observed standing heat.

A. CERTIFICATE OF EMBRYO RECOVERY

Breed _____

Donor Name _____ No. _____
CC Ear Tag or Tattoo _____

Owner _____ Address _____

Onset AM
 Estrus Date _____ PM
Yr. Mo. Day

Service Sire _____ No. _____ Breeding Date _____
CC Yr. Mo. Day

ID Code _____ Freeze Date or Batch No. _____ Sexed Semen X or Y _____ Recovery Date _____
Yr. Mo. Day

Service Sire _____ No. _____ Total Recovered _____
CC No. Cleaved/Degen. _____

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

Signature _____ Firm _____
Practitioner or Leader of the Embryo Production Team Recovering Embryos ET Code _____

B. CERTIFICATE OF EMBRYO TRANSFER (see reverse side for coding instructions)

IF FROZEN

ACCOMMODATES DIRECT TRANSFER

Date of Embryo Transfer _____ Surgical _____ Non-surgical _____ Other _____
Yr. Mo. Day Freeze Date on straw _____

if all trans. at one time Practitioner I.D. _____
 Straw No.'s _____

Days since Estrus of Donor _____

One Embryo was transferred to each of the following recipients unless it is noted that more than one was transferred.

RECIPIENT IDENTIFICATION		Breed Code	Days Since Estrus	Stage Code	Qual. Code	Embryo Manipulated N, D, F, M or U	Straw No.	Emb. Trans. Date	Comments*
Ear Tag, Registration or Tattoo No.									
1.	_____	_____	_____	_____	_____	_____	_____	_____	_____
2.	_____	_____	_____	_____	_____	_____	_____	_____	_____
3.	_____	_____	_____	_____	_____	_____	_____	_____	_____
4.	_____	_____	_____	_____	_____	_____	_____	_____	_____
5.	_____	_____	_____	_____	_____	_____	_____	_____	_____
6.	_____	_____	_____	_____	_____	_____	_____	_____	_____
7.	_____	_____	_____	_____	_____	_____	_____	_____	_____
8.	_____	_____	_____	_____	_____	_____	_____	_____	_____
9.	_____	_____	_____	_____	_____	_____	_____	_____	_____
10.	_____	_____	_____	_____	_____	_____	_____	_____	_____
11.	_____	_____	_____	_____	_____	_____	_____	_____	_____
12.	_____	_____	_____	_____	_____	_____	_____	_____	_____

Signature _____ Firm _____
Technician/Practitioner or Team Leader that transferred the Embryos

ET Code _____ Phone () _____

**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

- A. Complete one or more Certificate of Embryo Recovery 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 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, and that all the information is true and correct.
- B. Certificate of Embryo Transfer 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 Recovery will be completed by the responsible practitioner or by transferring from the original Certificate of Embryo Recovery or by attaching a copy. The practitioner or leader of embryo production team 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. Days since estrus will be expressed in 1/2 day increments.

One copy of a complete Certificate of Embryo Transfer with Certificate of Embryo Recovery will be submitted to the appropriate breed office as required by the respective breed organization, which may require the record before resulting offspring 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 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.

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		
No.	Stage	Code 1. Excellent or Good	N - Not Manipulated	January	JA
1	Unfertilized	Code 2. Fair	D - Divided	February	FE
2	2- to 12-cell	Code 3. Poor	F - Female by Biopsy	March	MR
3	Early Morula	Code 4. Dead or degenerating	M - Male by Biopsy	April	AP
4	Morula		U - Sex Undetermined by Biopsy	May	MY
5	Early Blastocyst	Refer to IETS Manual, Third Edition, Chapter 9, for description of codes.	Use comment column to describe other biopsies.	June	JN
6	Blastocyst			July	JY
7	Expanded Blastocyst			August	AU
8	Hatched Blastocyst			September	SE
9	Expanded Hatched Blastocyst			October	OC
				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 - Flamand	JE - Jersey	AR - Red Angus	TL - Texas Longhorn
BH - Brahmental	FL - Fleckvieh	KB - Kobe (Wagyu)	RB - Red Brangus	TU - Tuli
BL - Braleer	FR - Fribourg	LU - Luang	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	