American Embryo Transfer Association

1800 South Oak St. Suite 100 • Champaign IL 61820-6974 Phone (217)398-2217 • Fax (217)398-4119 • Email: aeta@assochq.org

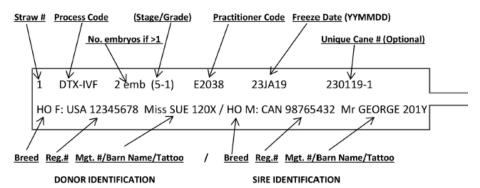
Guidelines & Recommendations for Embryo Identification

(Revision 2.1 - updated 10/12/2023)

General Considerations:

- Use at least one space between each item of information to facilitate ability to read. Strongly recommended
- Use an "E" as the character immediately *preceding* the practitioner's IETS <u>Freeze Code</u> on the straw labels, cane tops, canes & goblets, in order to eliminate confusion with embryo straw #, donor ID, etc. **REQUIRED**
- IETS Stage & Grade codes are NOT required on straw labels, but ARE **Strongly Recommended**. If used, put in parenthesis.
- Loading only 1 embryo per straw is <u>Strongly Recommended</u>, regardless of cryoprotectant. It IS allowable, however, to
 freeze/vitrify more than 1 embryo per straw. Straw label does NOT require # of embryos per straw, *unless* more than 1
 embryo per straw is loaded.
- Cane tab on top of cane must have a unique cane number & practitioner's IETS Freeze Code. REQUIRED
- Side of cane must have unique cane #, donor's barn name or number and sire's name or stud code. REQUIRED
- Mechanically printed straw, cane &/or goblet labels are Strongly Recommended
- Labeling of embryos produced by certified practitioners must follow IETS requirements as a *minimum* standard.
- The new IETS recommendation is to put all information in the specific order of the 2- or 3-line format shown below.
- <u>Head of cane / cane tab, top & bottom goblets</u> and <u>straw extension / ID plug</u> should be in the following colors as **REQUIRED** (summarized from IETS Manual, 5th Ed., Ch. 9, pg. 128):
 - Yellow Direct Transfer (DT) embryos
 - o White NON-Direct Transfer embryos
 - Light Blue Vitrified embryos (the use of this color indicates the method of cryopreservation, & thus, supersedes the use of Yellow, even if the embryo is vitrified for DT, but should be labeled "DT-VIT").

Straw labeling in recommended order (2-line printer)



Straw labelling in recommended order (3-line printer)

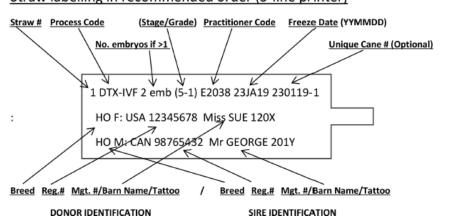


Figure 1. Straw labels:

Identification of embryos, in this case, IVP bovine embryos on a straw for direct transfer, made with female sexed semen (printed on two or three lines). If the straw has not been frozen for direct transfer, omit "DT" and remainder of the code applies. If vitrified, add "VIT" by itself or with any other code that applies (e.g., DT-VIT-IVF).

Donor/sire identification must include <u>breed</u> <u>code</u>, <u>gender</u> (F/M) if not part of reg. #, <u>country</u> <u>code</u>, and <u>registration</u> <u>number</u>, in that order.

Number of embryos is only necessary if more than 1. (Unique cane # & embryo stage / grade are optional).

IETS CODES for:

TAGE	OF DEVELOPMENT	Q
No.	Stage	Co
1	Unfertilized	Co
2	2- to 12-cell	Co
3	Early Morula	Co
4	Morula	
5	Early Blastocyst	Re
6	Blastocyst	Ed
7	Expanded Blastocyst	de
8	Hatched Blastocyst	
9	Expanded Hatched Blastocyst	

QUALITY OF EMBRYOS

Code 1.	Excellent or Good
Code 2.	Fair
Code 3.	Poor

Code 4. Dead or degenerating

Refer to IETS Manual, Fourth Edition, Chapter 9, for description of codes.

MANIPULATION OF EMBRYOS	January	JA
N - Not Manipulated	February	FE
D - Divided	March	MR
F - Female by Biopsy	April	AP
M - Male by Biopsy	May	MY
U - Sex Undetermined by Biopsy	June	JN
o con criacionimica by biopey	July	JY
Use comment column to describe	August	AU
other biopsies.	September	SE
	October	OC
SEXED SEMEN	November	NO
X - Female Y - Male	December	DE

MONTH

Side of Cane must contain:

- 1. Unique cane number
- 2. Donor name or ID # (or ID of cell line for clones)
- 3. Number of embryos in the goblet
- 4. If repackaged, a cane suffix A, B, C, etc.

Goblets must contain:

- 1. Unique cane number
- 2. IETS freeze code (practitioner/team freezing the embryos)
- 3. Date of freezing, format as YYMMDD (numeric/alpha/numeric)
- 4. Breed code, ID number and name of donor female
- 5. Breed code, ID number and name of donor male
- 6. ID of cell line for clones

Head of cane must contain:

- 1. Unique cane number
- 2. IETS freeze code (practitioner/team freezing the embryos) Optional:
 - Donor name or ID #
 - · Number of embryos remaining in the goblet

Processing Codes:

DT = Direct transfer in vivo-derived
DT-IVF = Direct transfer in vitro-produced
DTX = Direct transfer sexed semen – Female
DTY = Direct transfer sexed semen – Male
DTX-IVF = Direct transfer sexed semen – Female-IVF

DTY-IVF = Direct transfer sexed semen – Male-IVF

DTF-IVF = Direct transfer embryo biopsied – Female-IVF DTM-IVF = Direct transfer embryo biopsied – Male-IVF

DTB = Direct transfer embryo biopsied

Figure 2. Cane, goblet & head of cane:

