



A.U.B. – AZIENDA AGRARIA
ALMA MATER STUDIORUM – UNIVERSITÀ DI BOLOGNA
ISTITUTO NAZIONALE FECONDAZIONE ARTIFICIALE

July 7th, 2023

E MIL
BREEDING SOUNDNESS EXAMINATION REPORT

E MIL, n° PASSAPORTO BE0038, SB, male, 2020

Examination has been carried out from Tuesday 13th of June 2023 to Friday June 16th at AUB-INFA, Cadriano, Bologna.

History

An injury in a front leg is reported, and the horse treated and at rest during the previous eight months; despite this the horse is in a good shape, with a BCS of 6 out of 9.

The owner refers the horse as maiden stallion, never been collected before.

Two testicles are present in the scrotum, any abnormality after clinical exam of the testicles, head and tail of epididymis.

Testicular size has been measured by ultrasound

Breeding Soundness Evaluation

The stallion was exposed to a phantom mare, good libido and after a short training he easily jumped on a phantom; the stallion was quite and easy to manage, and all the ejaculates were collected after the first jump with a Missouri artificial vagina equipped with a disposable liner and an in line filter.

Via Gandolfi n.16 – 40057 Granarolo Emilia (BO) – C.F. 80007010376 – P.I. 01131710376

Responsabile sanitario: Prof.Mari Gaetano tel.320/4386494
Collaboratori Dott.Rizzato Giovanni tel.335/5265471 – Dott.ssa Mislei Beatrice tel.349/2853373
Amministrazione Azzaroni Andrea tel 051/766633 - Fax 051/765203



The first day two ejaculates have been collected one hour apart, then a single ejaculate has been collected in the following three days.

	<i>Left Testicle</i>	<i>Right Testicle</i>
Width (cm)	5.22	4.18
Height (cm)	6.36	5.78
Length (cm)	8.55	6.37
Testicular Volume (cm ³)	148.45	80.49

Total Testicular Volume	228.94 cm ³
Expected Daily Sperm Output (DSO)	4,4 x 10 ⁹ TSN

Libido good

Penis after erection normal

EJ DAY	13.6.23 I° 10am	13.6.23 II° 11am	14.6.23	15.6.23	16.6.23
VOLUME (gr) GEL FREE	26,15	39,29	24,23	20,38	28,30
CONC (x10 ⁶) NucleoCounter	384,4	104,9	120,3	63	81,8
TSN (X10 ⁹)	10.052	4.121.5	2,9	1,286	2,315
MOTILITY EVALUATION CASA HTM standard equine set up, four cell Leja slide					
TOTAL MOTILITY (%)	30	52	51	40	54
PROGRESS MOTILY (%)	16	23	27	19	32
VAP (µ/sec)	107,4	98,5	114,2	112	123,1
VCL (µ/sec)	199,7	201	203,1	197,6	220,2
MORPHOLOGY (%) wet sample, 1000 x, 200 cells evaluated					
NORMAL	50	58			
ABNORMAL HEAD	8	5			
DETACHED HEAD	3	2			
PROX DROPLET	6	4			
DISTAL DROPLET	10	7			
ABNOR MIDPIECE	14	15			
HAIRPIN	5	6			
BENT	4	2			
COILED TAIL	-	-			
PREM GERM CELLS	-	1			



Comments

Based on the number of morphologically normal, progressively motile sperm in the second ejaculate collected the first day, 547.9×10^6 , lower than normal in relationship to the month of the year ($1.5-2.0 \times 10^9$), the stallion must be considered a QUESTIONABLE PROSPECTIVE BREEDER, and needs to be considered for additional evaluation every 60 days.

This is particularly true for E MIL, taking in to account the young age and the particular conditions in which the evaluation has been performed, after an injury and waiting for a complete health and physical recovery.

A handwritten signature in black ink, appearing to read 'Gaetano Mari'.

Prof. Gaetano Mari

gaetano.mari@unibo.it