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DATUM
10 juli 2020

PAGINA
1/2

CERTIFICATE OF COLLECTION OF DOG SEMEN

1. IDENTIFICATION OF THE DOG:

Name of the dog: **Unchained-Wolf vom Hof Grebe**
Breed: Old German Shepherd
Date of birth: 29/12/2017
Chip number: 276098106620982

We herewith declare that the dog was identified at the time of semen collection by his microchip number. We herewith declare that the dog was clinically examined and was found free from signs of disease. He has two normal testicles, fully descended in the scrotum.

2. SEMEN COLLECTION AND QUALITY:

The dog described above was presented for semen collection on **10/07/2020**.
Semen collection occurred in the **absence** of a bitch in heat.

Collection:

First fraction (prostatic fluid): A few drops

Second fraction (sperm-rich fraction): **1.35** ml (white-grey).

Concentration per ml: 604.6×10^6 sperm cells/ml
Total number of sperm cells: **816.21** x 10^6 sperm cells/ejaculate

DATUM
10 juli 2020

PAGINA
2/2

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Total motility (Computer-assisted sperm analysis, CASA): **87 %** (reference value: 80%)
Progressive motility (Computer-assisted sperm analysis, CASA): **80 %** (reference value: 70%)

Viability: % sperm cells alive: **93 %** (reference value: 90%)
Morphology: % normal sperm cells: **92 %** (reference value: 80%)
% sperm cells with abnormal head: **1 %**
% sperm cells with abnormal tail: **6 %**
% sperm cells with proximal protoplasm droplet: **1 %**
% sperm cells with distal protoplasm droplet: **0 %**

Acrosome integrity: **96 %**

Mitochondrial membrane potential: **91 %**

Third fraction (prostatic fluid): Absent

Conclusion:

The semen quality of **Unchained-Wolf vom Hof Grebe**, presented on July 10th 2020 occurred fluently. The quality of the obtained sample is of good quality. The amount of progressively motile and normal spermatozoa present in this sample is **600.73 x 10⁶** sperm cells (reference value: $\geq 150 \times 10^6$ sperm cells per insemination/mating).

Kind regards,

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