

# SPERM CYTOMORPHOLOGICAL STUDY

Sperm Class Analyzer – Automatic system of sperm analysis by computer

Analysis Laboratory MICROPTIC S.L.

## IDENTIFICATION DATA

**Dog:** Tosa Inu **Date of birth** 1.3.2006  
**Name:** GHOST DOG Ostatni Samuraj **Analysis:** 17-11-08 9:56  
**Doctor:** MVDr. Alois Lázníčka **Reference:**

## PHYSICAL-CHEMICAL DATA

**Sample:** Date and time: 17-11-08 9:56  
 Abstinance: 7 days  
 Collection:

**Volume:** 4,2 ml ( $\geq 2$  mL) **Dilution:** 1: 0  
**Liquefaction:** **Agglutinations:**  
**Appearance:** Colour: white  
**Viscosity:** **Odour:**  
**pH:** 7,5 ( $\geq 7.2$ ) **Temperature:** 37,0 °C

## CONCENTRATION AND MOTILITY ANALYSIS

<i>progression</i>	Total	Percentage (%)	CONCENTRATION	
			millions per ml	in total ejaculated
Static	1	0,2%	0,3	1,1
Non-progressive motile	274	66,2%	71,2	299,2
Progressive motile	139	33,6%	36,1	151,8
	414	100,0%	107,6	452,1
			( $\geq 20$ mill/ml)	( $\geq 40$ mill/total)
Rapid	358	86,5%	93,1	390,9
Medium	31	7,5%	8,1	33,9
Slow	24	5,8%	6,2	26,2
Static	1	0,2%	0,3	1,1

<i>W.H.O</i>	Total	Percentage (%)	CONCENTRATION		
			millions per ml	in total ejaculated	
Fast progressive (type a)	128	30,9%	33,3	139,8	a $\geq$ 25%
Slow progressive (type b)	241	58,2%	62,7	263,2	a+b $\geq$ 50%
Non-progressive (type c)	44	10,6%	11,4	48,0	
Immotile (type d)	1	0,2%	0,3	1,1	

	Total	Static	Slow	Medium	Rapid	Unit
Head Area	24,9	18,6	31,6	26,2	24,3	$\mu\text{m}^2$
Round Cells	2,8	mill/mL	(< 5 mill/mL)			
Circular tracks	296	71,5%				

## AVERAGE VALUES OF VELOCITY PARAMETERS

		Total	Slow	Medium	Rapid	Unit
Curvilinear Velocity	VCL	137,0	47,4	83,6	147,6	$\mu\text{m/s}$
Straight-line Velocity	VSL	54,0	14,2	36,1	58,3	$\mu\text{m/s}$
Average Path Velocity	VAP	83,6	23,2	52,0	90,3	$\mu\text{m/s}$
Linearity	LIN	39,4	29,9	43,2	39,5	%
Straightness	STR	64,7	61,3	69,5	64,5	%
Wobble	WOB	61,0	48,8	62,2	61,2	%

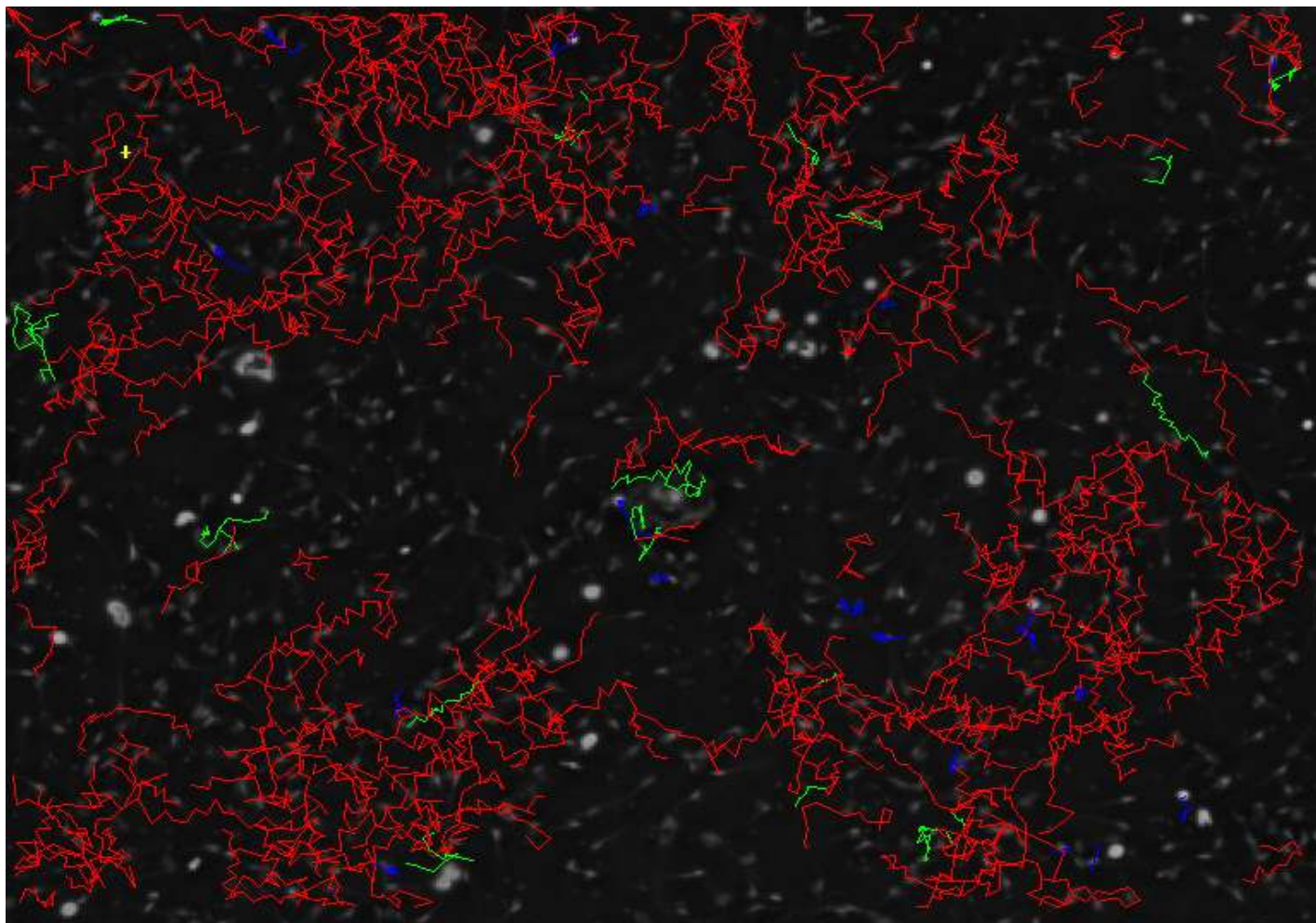
## AVERAGE VALUES OF OTHER PARAMETERS

Amplitude of lateral head displacement		Total	Medium Progr.	Rapid Progr.	Unit
ALH	ALH	5,1	3,2	5,2	μm
Beat/Cross Frequency	BCF	10,1	7,9	10,3	Hz

Type A ALH > 2.5μm STR > 85%	Total	Percentage (%)	CONCENTRATION	
			millions per ml	in total ejaculated
	77	18,6%	20,0	84,1

### Colour legend

<b>* Rapid progressive motility (type a)</b>	<b>* Non-progressive motility (type c)</b>
<b>* Slow progressive motility (type b)</b>	<b>* Immotile</b>



Field number 1

## Distribution graphics

