

Semen Analysis Report

Donor: FRENKY - BISON

Xcell Slovakia Breeding Services
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Donor: FRENKY - BISON		J001 Xcell Slovakia Breeding Services	
Name: FRENKY - BISON	Reg #: 1253/11	Birth date: 01.05.2008	
Breed: BYK	DNA profile #: CZ BIZON		
Sample Information		Collection Date: 07.07.2013	
Sample Collection			
Date/Time: 07.07.2013 / 20:37:21	Veterinarian:		
Collection:	Time since last collection: 0 days		
Received: 20:37:21	Reason for evaluation:		
Antibiotics: No comments...			
Untreated Sample			
Volume: 0,25 ml	Type of semen:	Semen Color:	
Semen pH: 0	Red Blood Cells:		
Sample Preparation			
Technician: Jaroslav Pokoradi		Extender: Triladyl mix	
Dilution ratio: 1 to 0			
Motility Information		Collection Date: 07.07.2013	
Average Cell Analysis Information - 700 Cells Analyzed 07.07.2013 20:42:16			
Sperm Concentration: 60,4 million/ml	Motility: 61,85 %	Local motility: 4,42 %	
Total Sperm: 15,10 million	Progressive motility: 57,42 %	Immotile: 38,16 %	
Viable Sperm: 8,67 million			
DCL: 74,16 µm	VCL: 166,10 µm/sec	LIN: 0,57	BCF: 37,72 hertz
DAP: 49,96 µm	VAP: 112,10 µm/sec	STR: 0,85	ALH: 4,26 µm
DSL: 42,73 µm	VSL: 95,87 µm/sec	WOB: 0,67	AOC: 27,47°

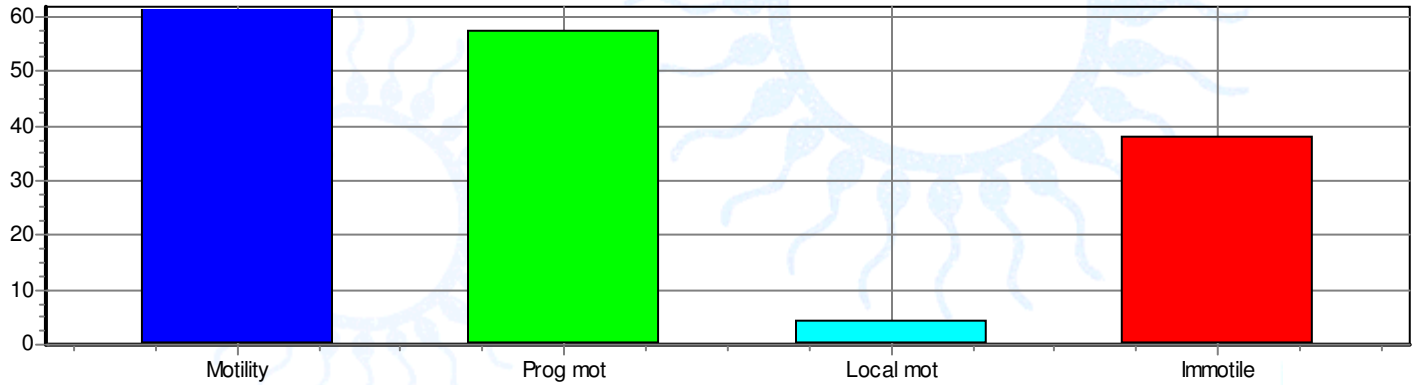
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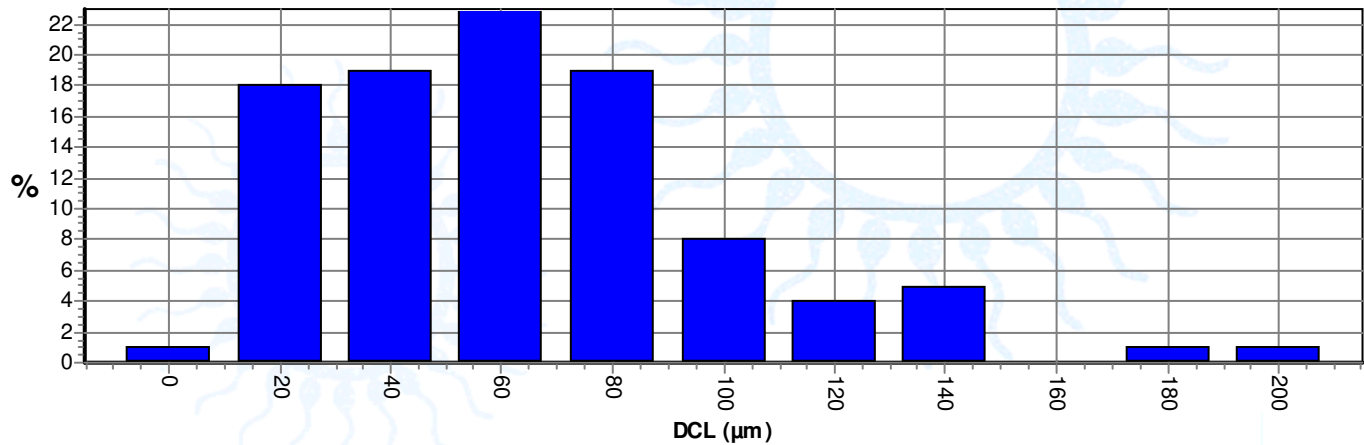
Motility Information cont.

Collection Date: 07.07.2013

Cell Classification Chart



DCL Distribution



Value	0,00	20,00	40,00	60,00	80,00	100,00	120,00	140,00	180,00	200,00
%	1	18	19	23	19	8	4	5	1	1
Cum. %	1	19	38	61	80	88	92	97	99	100

Minimum: 9,89

Average: 76,00

Q1: 47,72

Maximum: 207,80

Median: 75,22

Q3: 94,68

Standard deviation: 38,02

IQR: 46,96

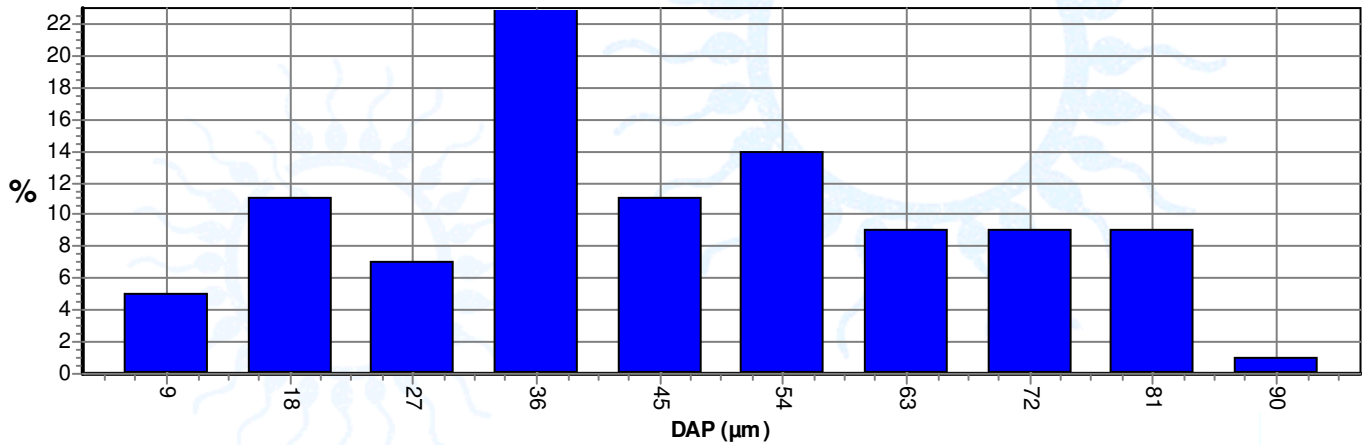
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Motility Information cont.

Collection Date: 07.07.2013

DAP Distribution



Value	9,00	18,00	27,00	36,00	45,00	54,00	63,00	72,00	81,00	90,00
%	5	11	7	23	11	14	9	9	9	1
Cum. %	5	16	23	46	57	70	80	89	99	100

Minimum: 9,91

Average: 51,46

Q1: 37,40

Maximum: 96,11

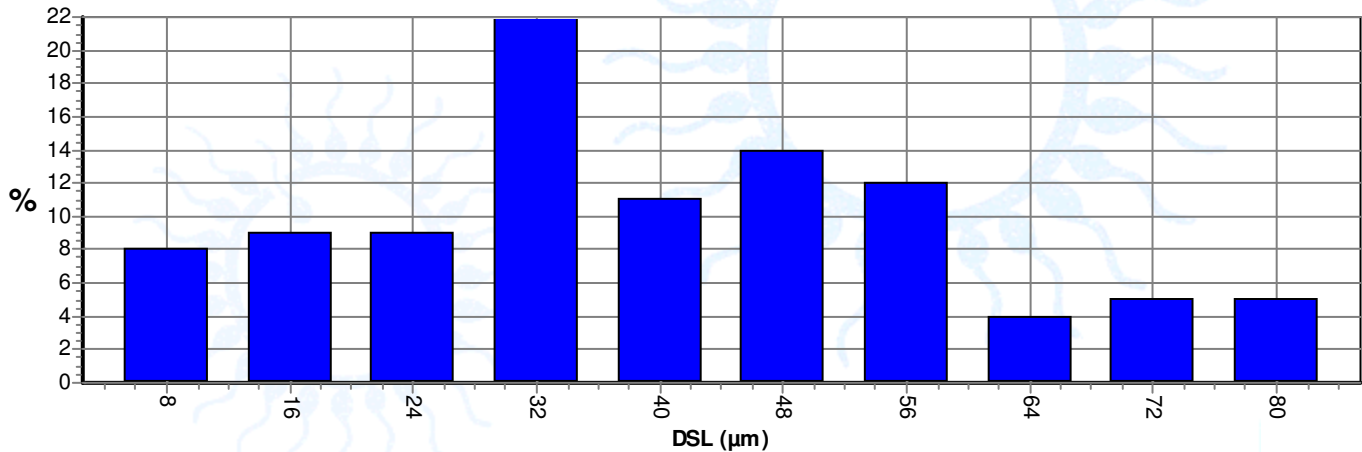
Median: 51,70

Q3: 68,33

Standard deviation: 21,01

IQR: 30,93

DSL Distribution



Value	8,00	16,00	24,00	32,00	40,00	48,00	56,00	64,00	72,00	80,00
%	8	9	9	22	11	14	12	4	5	5
Cum. %	8	18	27	49	59	73	85	89	95	100

Minimum: 8,00

Average: 43,85

Q1: 31,96

Maximum: 84,40

Median: 41,34

Q3: 58,49

Standard deviation: 19,47

IQR: 26,53

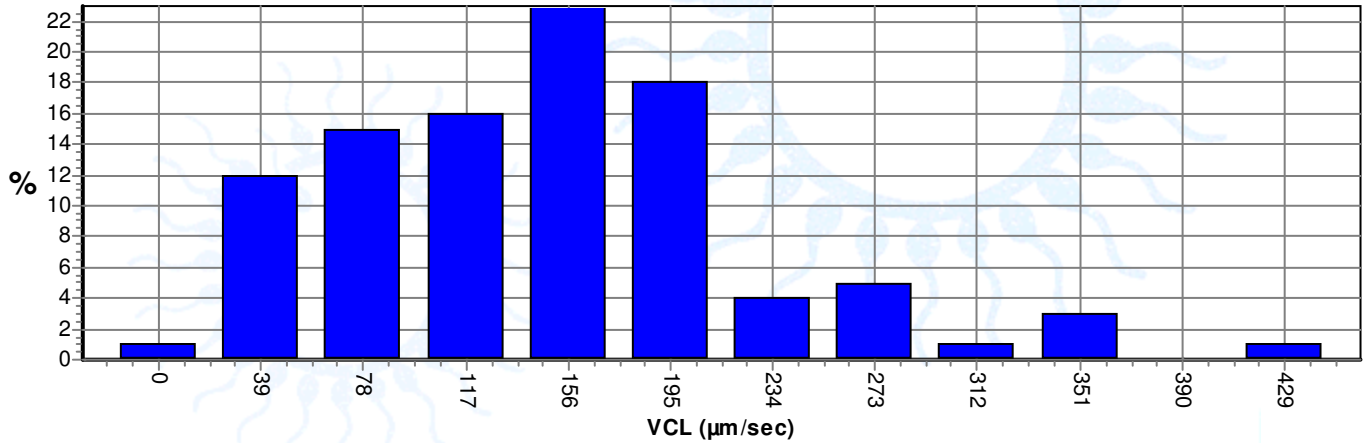
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Motility Information cont.

Collection Date: 07.07.2013

VCL Distribution



Value	0,00	39,00	78,00	117,00	156,00	195,00	234,00	273,00	312,00	351,00	429,00
%	1	12	15	16	23	18	4	5	1	3	1
Cum. %	1	14	28	45	68	85	89	95	96	99	100

Minimum: 37,07

Average: 170,80

Q1: 113,50

Maximum: 430,00

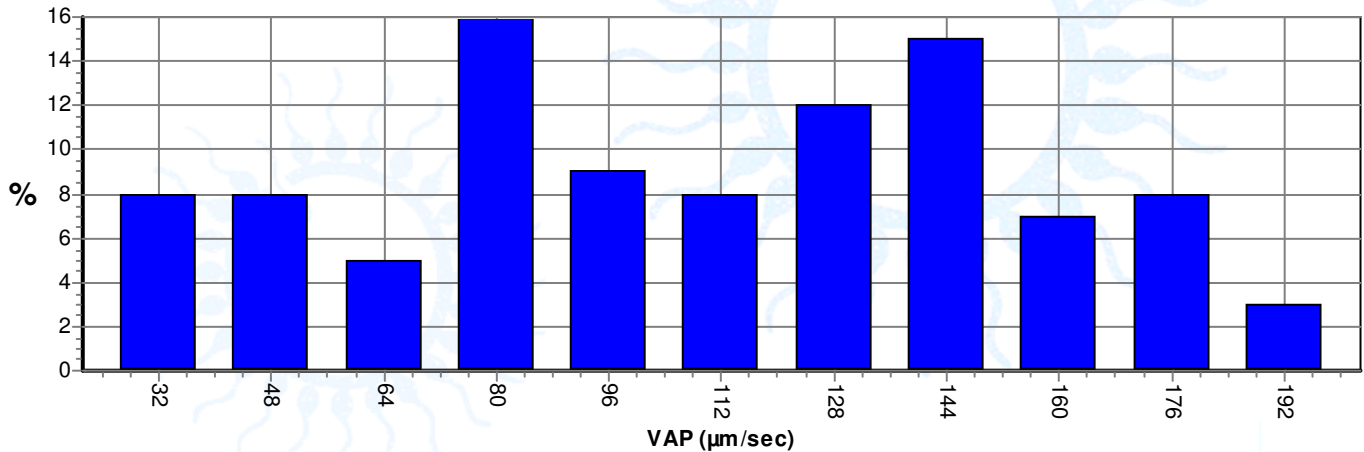
Median: 161,60

Q3: 207,80

Standard deviation: 81,35

IQR: 94,27

VAP Distribution



Value	32,00	48,00	64,00	80,00	96,00	112,00	128,00	144,00	160,00	176,00	192,00
%	8	8	5	16	9	8	12	15	7	8	3
Cum. %	8	16	22	38	47	55	68	82	89	97	100

Minimum: 35,43

Average: 116,10

Q1: 86,35

Maximum: 198,90

Median: 116,90

Q3: 153,20

Standard deviation: 44,93

IQR: 66,89

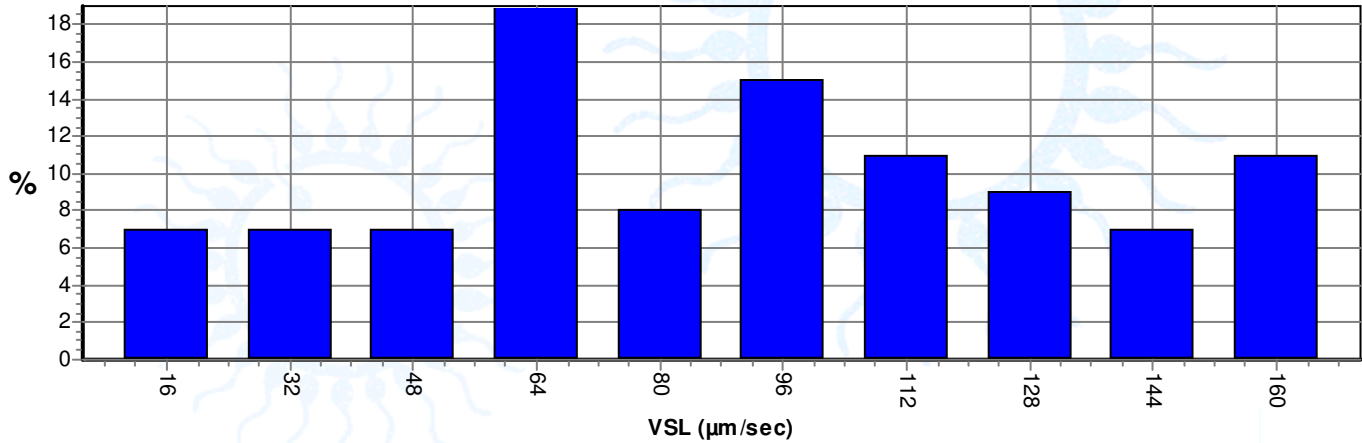
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VSL Distribution



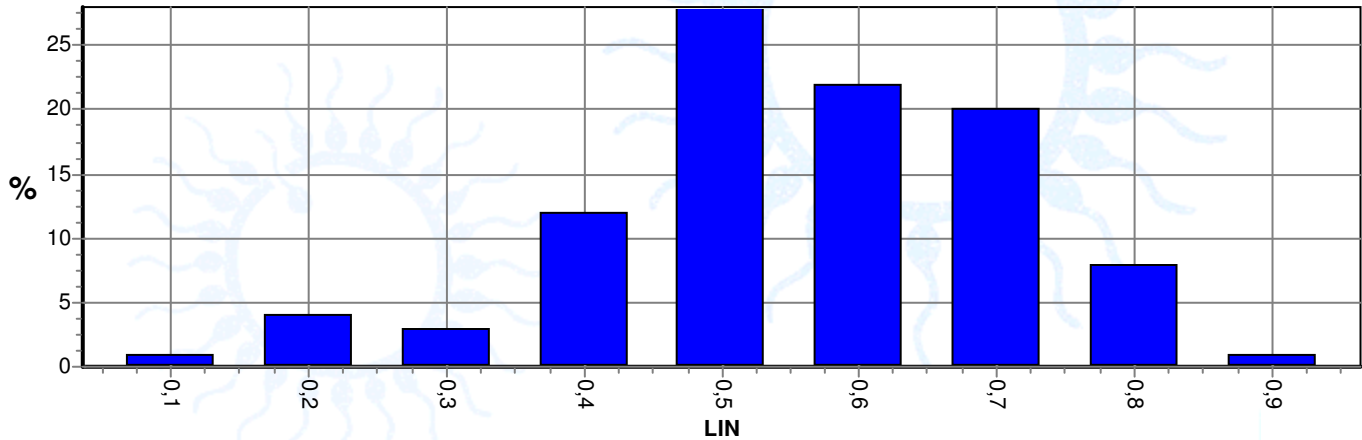
Value	16,00	32,00	48,00	64,00	80,00	96,00	112,00	128,00	144,00	160,00
%	7	7	7	19	8	15	11	9	7	11
Cum. %	7	14	20	39	47	62	73	82	89	100

Minimum: 16,56
Maximum: 175,30

Average: 99,34
Median: 101,10
Standard deviation: 42,77

Q1: 71,53
Q3: 129,60
IQR: 58,08

LIN Distribution



Value	0,10	0,20	0,30	0,40	0,50	0,60	0,70	0,80	0,90
%	1	4	3	12	28	22	20	8	1
Cum. %	1	5	8	20	49	70	91	99	100

Minimum: 0,11
Maximum: 1,00

Average: 0,61
Median: 0,61
Standard deviation: 0,15

Q1: 0,53
Q3: 0,71
IQR: 0,18

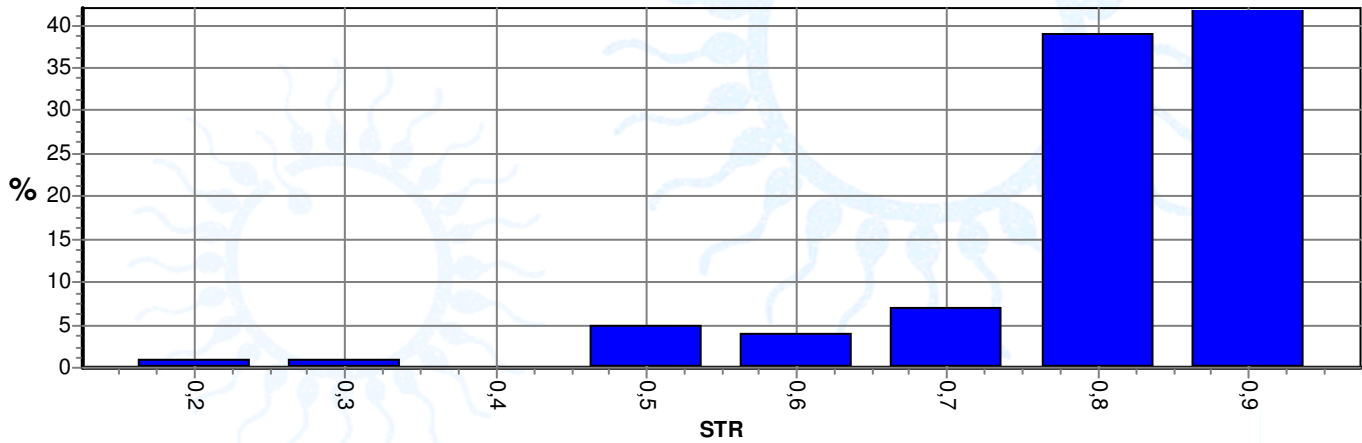
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Motility Information cont.

Collection Date: 07.07.2013

STR Distribution



Value	0,20	0,30	0,50	0,60	0,70	0,80	0,90
%	1	1	5	4	7	39	42
Cum. %	1	3	8	12	19	58	100

Minimum: 0,28

Average: 0,85

Q1: 0,83

Maximum: 0,99

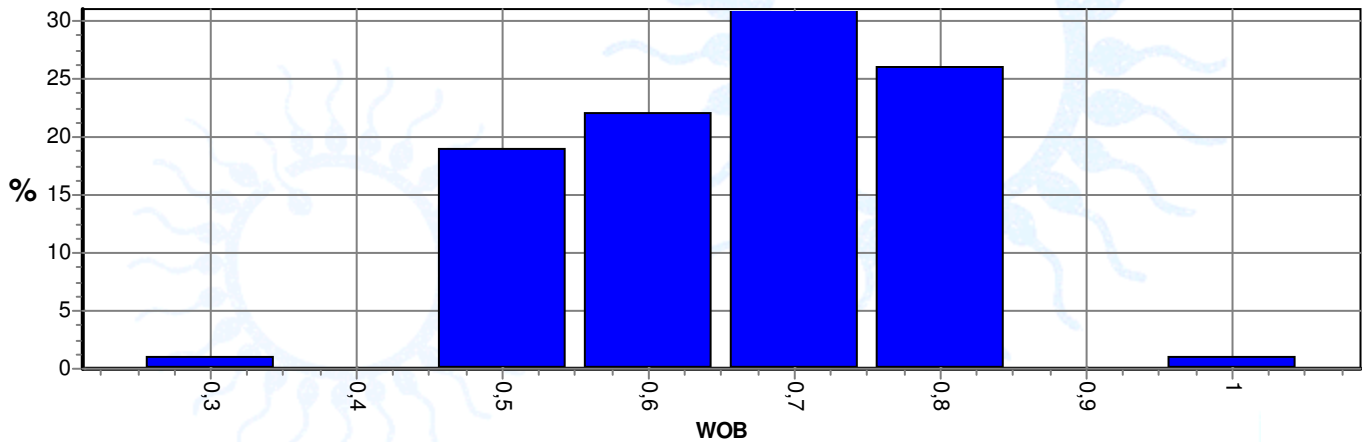
Median: 0,88

Q3: 0,93

Standard deviation: 0,14

IQR: 0,10

WOB Distribution



Value	0,30	0,50	0,60	0,70	0,80	1,00
%	1	19	22	31	26	1
Cum. %	1	20	42	73	99	100

Minimum: 0,38

Average: 0,71

Q1: 0,63

Maximum: 1,00

Median: 0,72

Q3: 0,80

Standard deviation: 0,12

IQR: 0,18

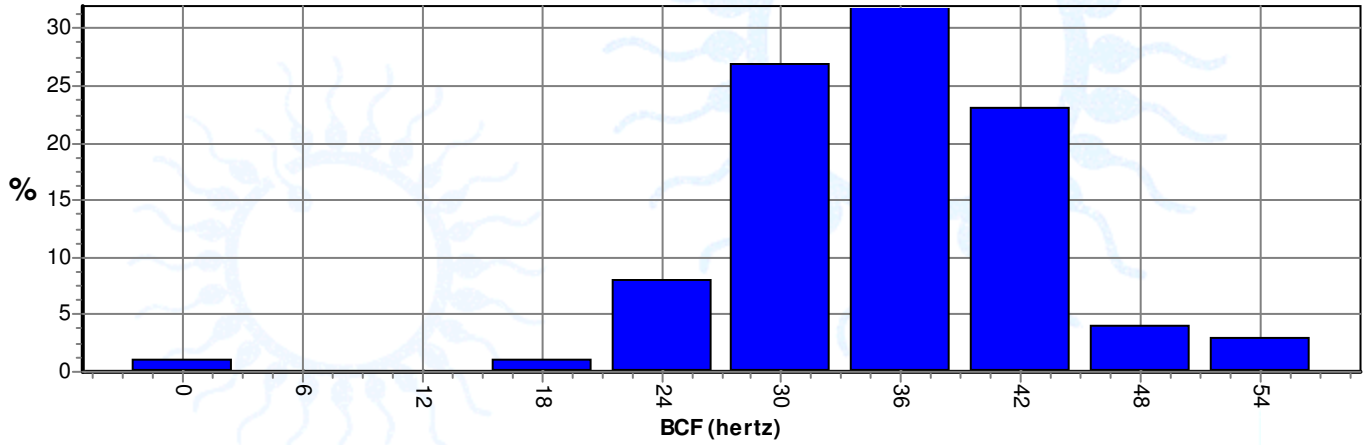
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Motility Information cont.

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BCF Distribution



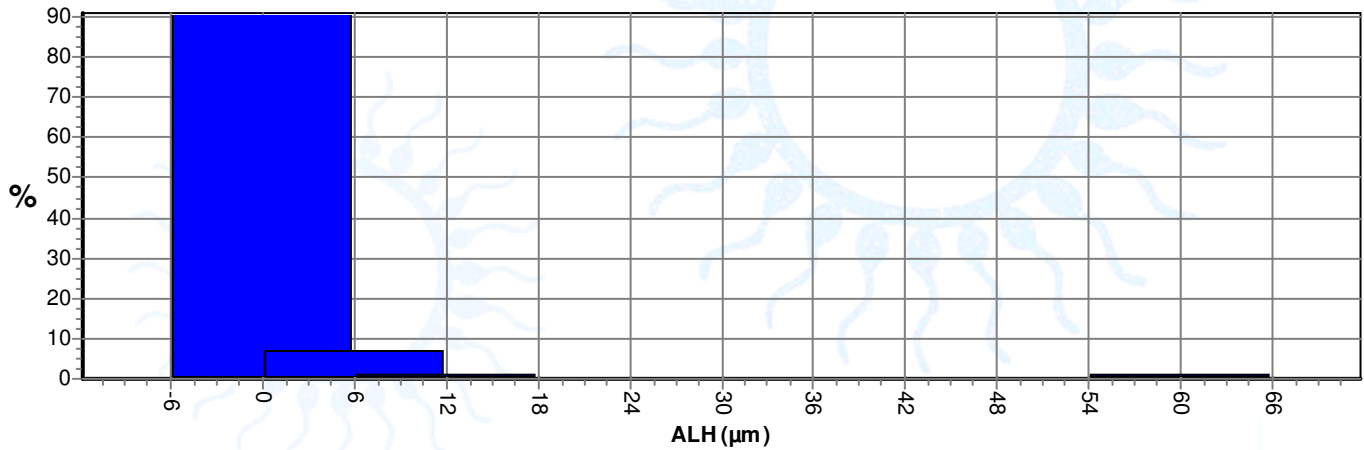
Value	0,00	18,00	24,00	30,00	36,00	42,00	48,00	54,00
%	1	1	8	27	32	23	4	3
Cum. %	1	3	11	38	70	93	97	100

Minimum: 0,00
Maximum: 57,64

Average: 37,80
Median: 37,69
Standard deviation: 8,24

Q1: 33,33
Q3: 43,17
IQR: 9,84

ALH Distribution



Value	0,00	6,00	12,00	60,00
%	91	7	1	1
Cum. %	91	97	99	100

Minimum: 1,48
Maximum: 64,24

Average: 4,73
Median: 3,86
Standard deviation: 7,26

Q1: 2,39
Q3: 4,82
IQR: 2,43

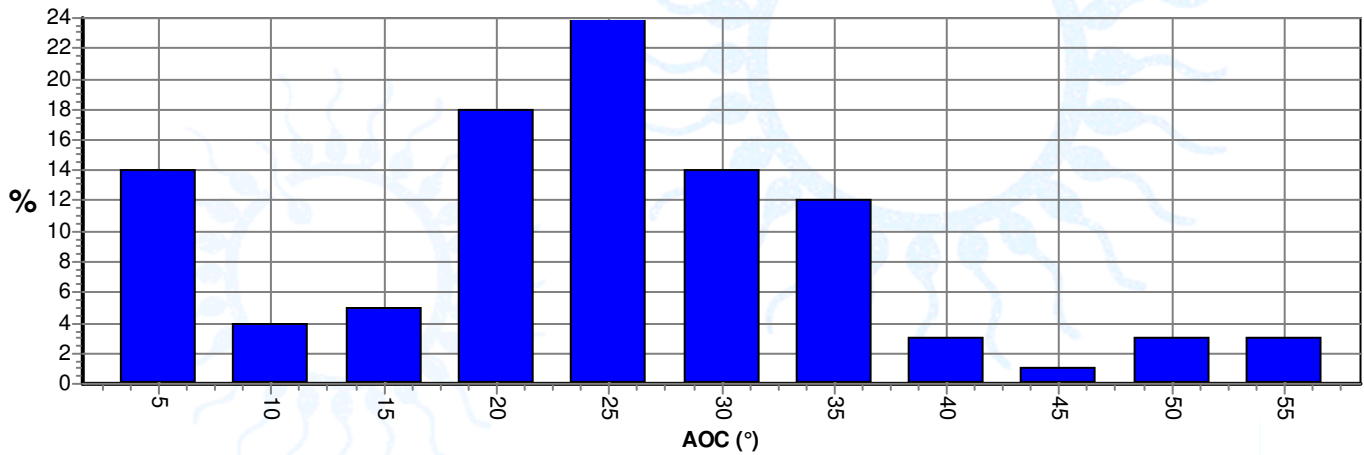
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AOC Distribution



Value	5,00	10,00	15,00	20,00	25,00	30,00	35,00	40,00	45,00	50,00	55,00
%	14	4	5	18	24	14	12	3	1	3	3
Cum. %	14	18	23	41	65	78	91	93	95	97	100

Minimum: 6,52

Average: 26,82

Q1: 21,00

Maximum: 57,31

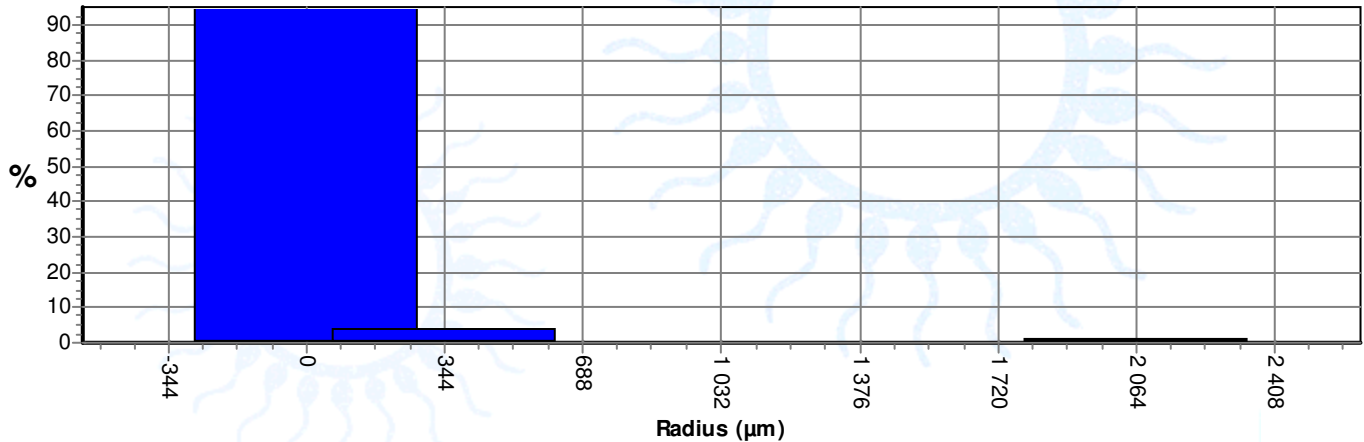
Median: 26,48

Q3: 34,00

Standard deviation: 11,77

IQR: 13,00

Radius Distribution



Value	0,00	344,00	2064,00
%	95	4	1
Cum. %	95	99	100

Minimum: 4,00

Average: 126,00

Q1: 34,00

Maximum: 2070,00

Median: 60,00

Q3: 115,00

Standard deviation: 255,50

IQR: 81,00

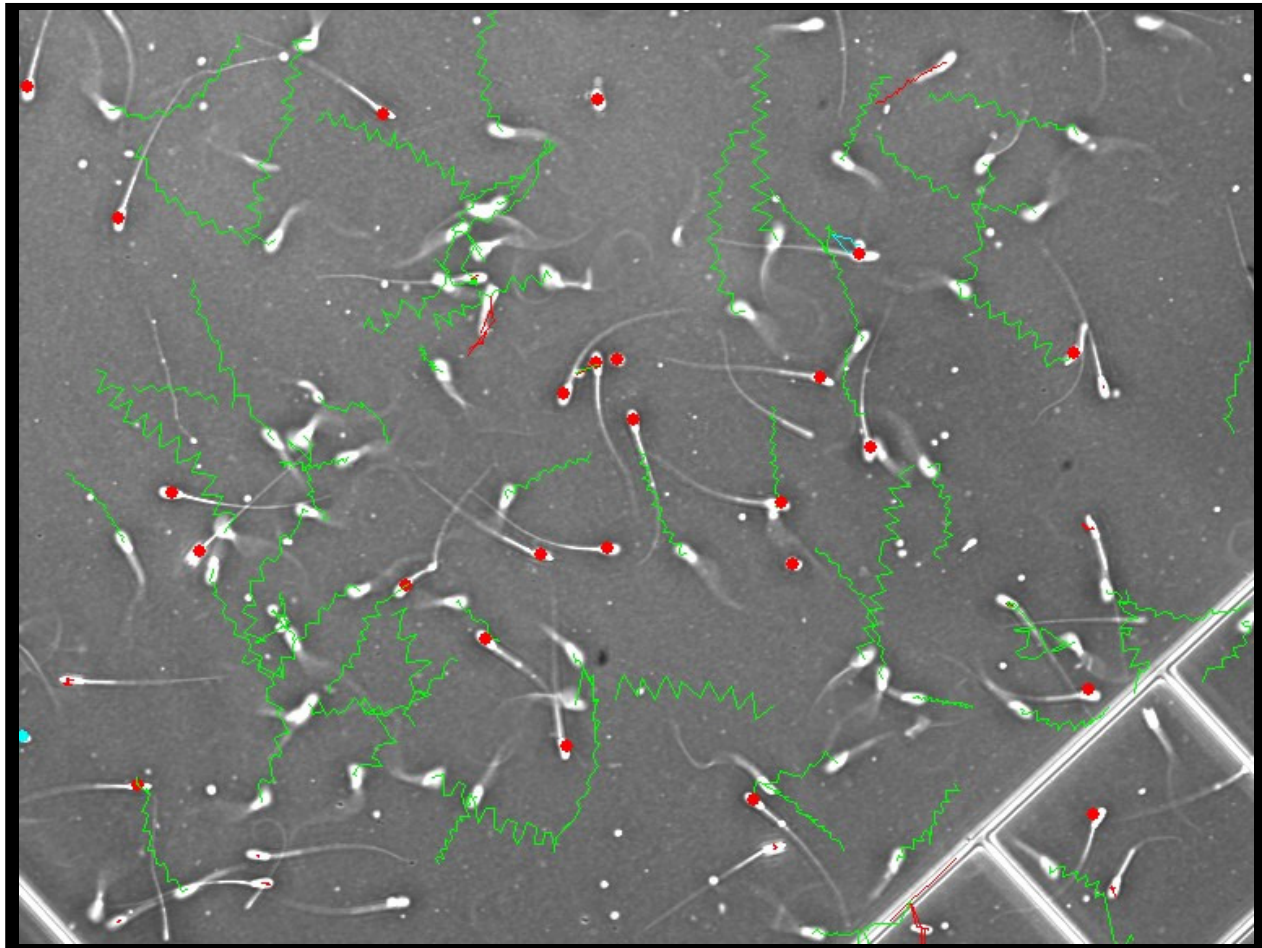
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Motility Information cont.

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Motility Image - Field 3



Field Analysis Information

	Cells: 123
	Concentration: 64 million/ml
	Motility: 61,78
●	Progressive motility: 60,16
●	Local motility: 1,62
●	Immotile: 38,22

Field Summary

●	Hyperactive: 0,00
●	Linear: 0,00
●	Non-linear: 0,00
	Curvilinear: 0,00

Progressive Summary

DCL: 75,99	LIN: 0,58
DAP: 51,45	STR: 0,85
DSL: 43,84	WOB: 0,67
VCL: 170,80	BCF: 37,80
VAP: 116,10	ALH: 4,72
VSL: 99,33	AOC: 26,82