

Supplementary material

Characterization of the germplasm bank for the Spanish autochthonous bull breed “Asturiana de la Montaña”

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Table S1. Descriptive statistics from the fresh semen analysis (40 Asturiana de la Montaña bulls, 102 ejaculates).

Variable	Min.	1st Q.	Median	3rd Q.	Max.
Total motility (%)	65.5	83.9	93.4	95.9	98.5
Progressivity (%)	57.6	64.8	71.9	83.5	92.3
VCL ($\mu\text{m/s}$)	95.7	109.9	116.4	128.0	156.2
VAP ($\mu\text{m/s}$)	65.2	80.6	91.9	101.7	137
VSL ($\mu\text{m/s}$)	50.2	65.4	75.4	79.8	118.9
LIN (%)	49.1	58.3	63.9	68.8	76.5
STR (%)	75.7	78.4	80.7	83.9	86.8
WOB (%)	64.9	71	80.7	83.7	88.1
Abnormal forms (%)	3.0	8.6	8.8	8.9	13.0
Cytoplasmic droplets (%)	0	4.0	5.8	7.4	18.0
Damaged acrosomes (%)	1.0	3.0	3.7	4.2	8.0
HOST (%)	49.0	58.0	68.0	77.5	85.0
Viability (%)	55.0	63.0	66.0	70.2	80.0

Min: Minimum; 1st Q.: First quartile of the distribution; 3st Q.: Third quartile; Max.: Maximum.

Table S2. Descriptive statistics from the evaluation of the thawed semen (40 Asturiana de la Montaña bulls, 102 ejaculates).

Variable	Min.	1st Q.	Median	3rd Q.	Max.
Total motility (%)	6.3	26.4	34.8	42.6	63.0
Progressivity (%)	3.1	14.2	21.6	28.2	53.2
VCL ($\mu\text{m/s}$)	42.5	68.0	90.7	127.0	192.6
VAP ($\mu\text{m/s}$)	26.4	45.0	72.2	114.9	154.6
VSL ($\mu\text{m/s}$)	20.8	40.3	57.6	72.8	121.2
LIN (%)	49.1	59.0	62.8	67.2	78.6
STR (%)	68.7	80.0	87.8	92.5	95.7
WOB (%)	58.0	66.1	80.8	89.4	93.4
Abnormal forms (%)	9.0	17.4	17.6	17.7	33.0

Variable	Min.	1st Q.	Median	3rd Q.	Max.
Cytoplasmic droplets (%)	1.0	3.4	3.5	3.6	7.0
Damaged acrosomes (%)	9.8	15.3	18.5	23.4	50.9
HOST (%)	32.0	47.7	50.0	52.5	66.0
Viability (%)	13.9	47.1	53.9	62.2	78.1

Min: Minimum; 1st Q.: First quartile of the distribution; 3st Q.: Third quartile; Max.: Maximum.