



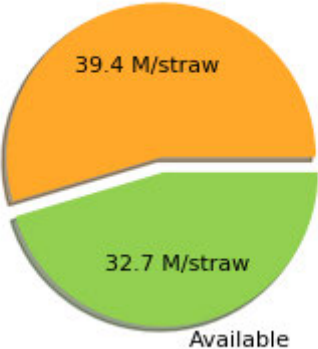
Individual Sample Report

Frozen Sample -- Ram
MILEHIGH REPRO SOLUTIONS

Summary

Sperm Concentration

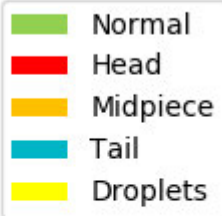
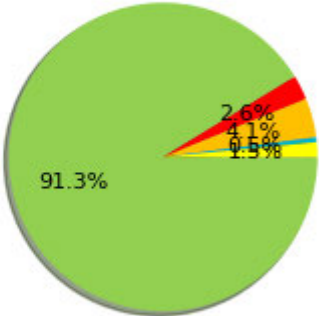
Sperm Available to Fertilize



Beyond motility, the number of live sperm in the straw with intact acrosomes and normal morphology.

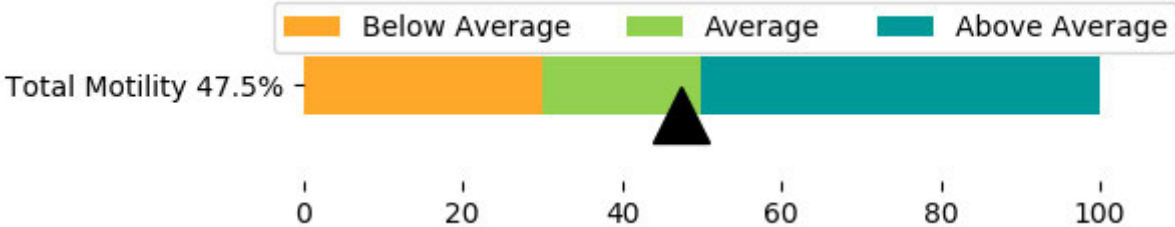
Sperm Morphology

Morphology Defects



Morphology refers to the size and shape of individual sperm cells observed under a microscope. Sperm populations should be 70% normal or better to be considered normal fertility.

Motility



Motility refers to the movement of the sperm through the female reproductive tract. In general, high motility is seen in more fertile sperm.

Detailed Summary

Collection Site MILEHIGH REPRO SOLUTIONS
Collection Date July 7, 2021
Buck Name [REDACTED]
Breed Hampshire
Straw ID [REDACTED]
Straw Volume 0.5 ml
Total Concentration 144.1 million/ml
Available to Fertilize 32.7 million/straw

Alerts
PASS MPTI QC

Sperm Details

Sperm Quality

| | 0 Hour | 3 Hour |
|-------------------------|--------|--------|
| Intact Acrosomes | 87.3% | 63.4% |
| Live | 56.2% | 55.6% |
| Live/Intact | 52.0% | 40.1% |
| Live/Reacted | 2.6% | 15.4% |
| Active | 47.6% | 42.1% |
| Mitochondria | | |
| Intact DNA | 98.4% | |

Pre-Freeze Motility

| | 88.4% | |
|--------------------------|-----------------|--------|
| | Motility | |
| | 0 Hour | 3 Hour |
| Motile Cells | 47.5% | 35.6% |
| Progressive Cells | 43.7% | 30.5% |

Morphology -- Normal Cells: 87.3% (out of 204 cells)

Primary Abnormalities: 6.9%

| | |
|----------------------------|------|
| Abnormal Heads | 2.0% |
| Detached Heads | 0.5% |
| DMR | 2.5% |
| Midpiece Defects | 1.5% |
| Coiled Tail Defects | 0.5% |

Secondary Abnormalities: 5.9%

| | |
|---------------------------|------|
| Proximal Droplets | 0.5% |
| Distal Droplets | 1.0% |
| Tail Defect | 4.4% |
| Bent / Coiled Tail | 0.0% |

Additional Information

Analysis Information

Analysis Type CSA
Analysis Date July 8, 2021
Lab Tech [REDACTED]



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