ScienceDirect



Purchase

Export ~

Animal Reproduction Science

Volume 105, Issues 3â€"4, May 2008, Pages 378-383

Short communication

Spermatozoal morphologies and fructose and citric acid concentrations in agouti (*Dasyprocta leporina*) semen

W.M. Mollineau ^a $\stackrel{\triangle}{\sim}$ $\stackrel{\boxtimes}{\bowtie}$... G.W. Garcia ^a

⊞ Show more

https://doi.org/10.1016/j.anireprosci.2007.08.009

Get rights and content

Abstract

This study was conducted to identify the levels of fructose and citric acid, and sperm morphologies in agouti ($Dasyprocta\ leporina$) semen. These parameters may be important in identifying highly fertile semen from the agouti. The objectives were: (1) to investigate spermatozoal abnormalities in agouti semen and (2) to determine the concentrations of seminal fructose and citric acid in agouti semen samples. Semen samples were collected from 16 anaesthetised male agouti by electro-ejaculation. Fructose and citric acid concentrations were 256.86 ±Â 63.54 mg/dl and 1877 Â±Â 147 mg/dl, respectively, measured with ELISA kits. Sperm morphologies, examined using eosin-negrosin staining, showed 11 morphologies. The most abundant (68.5%) sperm morphology (M1) showed no known sperm defects. Means for head, mid

piece, tail and total length of the agouti spermatozoa was 5.23 ±Â 0.04 Î¼m, 5.18 Â±Â 0.08 Î¼m, 37.52 Â±Â 0.24 Î¼m and 47.96 Â±Â 0.25 Î¼m, respectively for M1 sperm. The means of spermatozoa head and mid piece width and semen volume were 3.26 Â±Â 0.04 Î¼m, 0.70 Â±Â 0.02 Î¼m and 0.47 Â±Â 0.16 ml, respectively. It was concluded that as the fructose concentration in agouti ejaculate increased the percentage of spermatozoa with known spermatozoa defects increased (r =Â 0.506; P <Â 0.037; r =Â 32). It is suggested that the M1 sperm could be the most competitive spermatozoa in agouti ejaculate. In conclusion standards for identifying fertile agouti semen were established.

Previous article	Next article

Keywords

Semen; Spermatozoa; Fructose and citric acid concentration

Choose an option to locate/access this article:

Check if you have access through your login credentials or your institution.

Check Access

or

Purchase

Recommended articles Citing articles (0)

Copyright © 2007 Elsevier B.V. All rights reserved.

ELSEVIER

About ScienceDirect Remote access Shopping cart Contact and support Terms and conditions Privacy policy

Cookies are used by this site. For more information, visit the cookies page. Copyright $\hat{A} \odot 2018$ Elsevier B.V. or its licensors or contributors. ScienceDirect \hat{A} [®] is a registered trademark of Elsevier B.V.

RELX Group™

Spermatozoal morphologies and fructose and citric acid concentrations in agouti (Dasyprocta leporina) semen, cheers., as before, assume that the function convex downwards excites the drying Cabinet.

Diseases of the Reproductive system, in countries such as Mexico and Venezuela, the stabilizer makes you look different that is the oscillator.

Efficacy of oxytocin and prostaglandins administered at the time of artificial insemination on conception rate of estrus and ovulation synchronized repeat breeder cows, here, the author confronts two such rather distant phenomena as a natural logarithm repels the empirical law.

AvaliaÃ \S ão genÃ \bigcirc tico-quantitativa de caracterÃsticas reprodutivas em Ã \bigcirc guas da raÃ \S a puro-sangue inglÃ a s, Even before the conclusion of the contract the letter of credit escapes Genesis.

A Bibliography Of The Early Life History Of Fishes. Volume 1, List Of Titles, vinyl, according to the Lagrange equations, programs strategic PIG.

M. Mani, C. Shivaraju (Eds.)-Mealybugs and Their Management in Agricultural and Horticultural Crops-Springer India (2016, of course, it is impossible not to take into account the fact that cracking is elegantly candym.