

水产渔业科学

中华鳖血液凝固特性研究

闫书彩<sup>1</sup>,李玉荣<sup>2</sup>,高明<sup>2</sup>,王韞<sup>2</sup>,曹栋<sup>2</sup>,李双安<sup>1</sup>

河北农业大学动物科技学院, 河北保定071000

摘要:

通过中华鳖全血、无细胞血浆(CFP)的凝固指标及水的稀释作用对这些指标的影响来阐述其凝血特性, 指标包括全血复钙时间(CT)及血浆的复钙时间(RT)、活化凝血时间(ACT)、活化部分凝血活酶时间(APTT)、凝血酶原时间(PT)、凝血酶时间(TT)6个方面。结果显示: 1) 本实验首次报道鳖无细胞血浆的ACT、APTT和PT分别为332.65 s、147.75 s和50.61 s, 与哺乳动物存在差异, 但CT、RT和TT与哺乳动物没有差异; 2) CFP复钙在10 min内未凝固, 而CFP稀释后血浆凝固; 3) CFP稀释后ACT、APTT与未稀释相比缩短(P<0.01), PT无变化(P>0.05)。结论: 稀释后的鳖CFP发生凝固, 主要通过影响内源性凝血过程, 与外源性凝血途径无关。

关键词: 中华鳖 血液 凝固

A study on the characteristics of blood coagulation for Chinese soft-shelled turtle

Abstract:

In order to discover the characteristics of blood coagulation for Chinese soft-shelled turtle, some general blood clotting tests have been done, for example, the recalcified whole blood clotting time (CT) test, the plasma recalcification time (RT) test, the activated plasma clotting time (ACT) test, the activated partial thromboplastin time (APTT) test, the prothrombin time (PT) test and the thrombin time (TT) test, the samples of whole blood or plasma were treated with citrate and differently diluted 1-, 2-, 3-fold with ion-free water. The results prove that: this paper firstly reported the ACT, the APTT and the PT for Chinese soft-shelled turtle were 332.65 s, 147.75 s, 50.61 s, which are different from mammals, however, the CT, the CT and the TT are no difference between Chinese soft-shelled turtle and mammals; 2) the cell-free plasma of Chinese soft-shelled turtle uncoagulates within 10 min. , but the diluted cell-free plasma of Chinese soft-shelled turtle coagulate; 3) the ACT and the APTT are extremely significant difference (P<0.01) between the diluted plasma and the control group for Chinese soft-shelled turtle, however, the PT is nonsignificant difference (P>0.05) between the diluted plasma(1:1, 1:2) and that of the control group. Conclusions: the diluted cell-free plasma of Chinese soft-shelled turtle has coagulated, primarily by influencing the intrinsic pathway but has nothing to do with the extrinsic pathway.

Keywords: Chinese soft-shelled turtle blood coagulation

收稿日期 2009-12-10 修回日期 2009-12-24 网络版发布日期 2010-02-05

DOI:

基金项目:

国家自然科学基金资助项目

通讯作者: 李双安

作者简介:

作者Email: shuanganli@126.com

参考文献:

本刊中的类似文章

扩展功能

本文信息

- ▶ Supporting info
- ▶ PDF(1322KB)
- ▶ [HTML全文]
- ▶ 参考文献[PDF]
- ▶ 参考文献

服务与反馈

- ▶ 把本文推荐给朋友
- ▶ 加入我的书架
- ▶ 加入引用管理器
- ▶ 引用本文
- ▶ Email Alert
- ▶ 文章反馈
- ▶ 浏览反馈信息

本文关键词相关文章

- ▶ 中华鳖
- ▶ 血液
- ▶ 凝固

本文作者相关文章

- ▶ 闫书彩
- ▶ 李玉荣
- ▶ 高明
- ▶ 王韞
- ▶ 曹栋
- ▶ 李双安

PubMed

- ▶ Article by Yan,S.C
- ▶ Article by Li,Y.R
- ▶ Article by Gao,m
- ▶ Article by Yu,w
- ▶ Article by Cao,d
- ▶ Article by Li,S.A

1. 辛亚平, 张英汉, 咎林森, 王自良. 秦川牛血液型与生长性状的关系研究[J]. 中国农学通报, 2004,20(6): 4-4
2. 肖明松, 陈庆榆, 鲍方印, 崔 峰, 王 松, 李升和, 康 健. 中华鳖消化系统组织学的研究[J]. 中国农学通报, 2006,22(1): 384-384
3. 徐建中 史秋梅. 紫锥菊、黄芪提取物合剂对IBD雏鸡免疫器官指数及部分血液生化指标的影响[J]. 中国农学通报, 2009,25(22): 0-0
4. leilei98@.com. 五倍子对鲤鱼细菌性败血症的药效试验初报[J]. 中国农学通报, 2006,22(5): 460-460
5. 李 谨, 张 沉, 陈创夫, 杨公社. Polymorphism among Several Native Pig in Southwest China of Three Protein Loci[J]. 中国农学通报, 2005,21(4): 10-10
6. 贺 亮, 李 锐, 邓旭明. 高脂血症金黄地鼠血液流变学研究[J]. 中国农学通报, 2008,24(09): 9-12
7. 刘焕奇. 赛啦唑麻醉对犬血流动力学及内皮依赖性血管调节机制的影响[J]. 中国农学通报, 2009,25(12): 6-9
8. 李茂. 不同能氮水平日粮对生长期海南黑山羊血液生化指标的影响[J]. 中国农学通报, 2009,25(22): 0-0