

PEG6000修饰物混合吐温80—硫酸铵盐的液—固萃取体系分离纯化血红蛋白

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摘要 采用聚乙二醇6000 (PEG6000) 修饰物混合吐温80—硫酸铵盐的液—固萃取体系对血红蛋白分离纯化进行研究, 考察了修饰物、盐、吐温80浓度以及体系酸度、温度等因素对因素对血红蛋白离纯化的影响, 用该体系直接从三种血液中分离纯化 血红, 操作简便快速, 萃取容量大, 一次萃取容量大, 一次萃取固相收得率99%以上, 一次反萃取率达75%, 一步纯化倍数达20倍, 用多种手段验证了所获猪血红蛋白, 纯度达99%。

关键词 [聚乙二醇](#) [萃取](#) [血红蛋白](#) [分离](#) [纯化](#) [吐温80](#) [硫酸铵](#)

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Separation and Purification of Hemoglobin by Using Liquid-Solid Extraction System of Cu(II) IDAPEG6000-Tween 80-(NH₄)₂SO₄

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Abstract The method of separation and purification of hemoglobin by using liquid-solid extraction system of Cu(II)-IDAPEG 6000-tween 80-(NH₄)₂SO₄ was studied. The influences of conditions such as the amount of Cu(II) IDAPEG 6000, concentrations of Tween 80 and salt, acidity, temperature, etc., were studied. It was simple and rapid to extract pig hemoglobin, human hemoglobin and bovine hemoglobin from blood using this extraction systems, with high extraction capacity and extraction rate. The one-solid phase extraction rate was more than 99%, and the one-step reextraction rate was 75%. Hemoglobin purification fold was about 20.00. The purity of pig hemoglobin (PHb) in the sample reached 99%.

Key words [POLYGLYCOL](#) [EXTRACTION](#) [HEMOGLOBIN](#) [ISOLATION](#) [PURIFICATION](#) [TWEEN 80](#) [AMMONIUM SULFATE](#)

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