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Hemoglobin Repletion and the Hematological Responses to Hemosiderin and Ferrous Sulfate

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The bioavailability of iron in ferrous sulfate and in hemosiderin, prej the laboratory, was evaluated in terms of the "hemoglobin regenera and hematological indices. The anemia was induced in rats by feedi deficient diet for 1 week and by withdrawal of blood from the retro rats were fed for an additional 6 weeks the iron-deficient diet or th supplemented with ferrous sulfate or hemosiderin at 6, 12, 18, 24 r weeks, there was no significant difference in the HRE of the anemic hemosiderin or ferrous sulfate diets (31-55% for hemosiderin-fed § for ferrous sulfate-fed groups). Blood parameters, levels of nonhem spleen and iron contents in the liver, spleen, kidneys, heart and lung

hemosiderin diet were not significantly different than those of the ra sulfate diet. No significant difference was observed between the tw regarding the levels of available iron when assessed by the *in vitro* results indicated that hemosiderin is a good nutritional source of iro

Keywords: <u>hemosiderin</u>, <u>regeneration of hemoglobin</u>, <u>ferrous sulfa</u> <u>repletion</u>

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