

Online Supporting Material

Supplemental Table 1. Composition of Harlan Teklad iron control (TD.05656) and iron-deficient (TD.80396) purified diets fed to rats.

Ingredient	Diet	
	Control	Iron-Deficient
	<i>g/kg</i>	
Casein, low Cu & Fe	200	200
DL-Methionine	3.0	3.0
Sucrose	549	550
Corn Starch	150	150
Corn Oil	50.0	50.0
Mineral Mix ² , Fe deficient (81062)	35.0	35.0
Vitamin Mix ³ , AIN-76A (40077)	10.0	10.0
Ferric Citrate ¹	1.4	-
Choline Bitartate	2.0	2.0
Ethoxyquin	0.01	0.01

¹ The iron-deficient and sufficient (control) diets contained on average 2- 6 and 240 µg Fe/g diet, respectively.

² Vitamin mix contained the following (g/kg mix): thiamin HCl, 0.60; riboflavin, 0.60; pyridoxine HCl, 0.70; niacin, 3.0; calcium pantothenate, 1.60; folic acid, 0.20; biotin, 0.02; vitamin B12, 1.0; dry vitamin A palmitate (500 kIU/g), 0.80; dry vitamin E acetate (500 IU/g), 10.0; vitamin D3 trituration (400 kIU/g), 0.30; menadione sodium bisulfite, 0.20; sucrose, 981.

³ Mineral mix contained the following (g/kg mix): CaHPO₄, 500; NaCl, 74.0; C₆H₇K₃O₈, 220; K₂SO₄, 52.0; MgO, 24.0; MnCO₃, 3.5; ZnCO₃, 1.6; CuCO₃, 0.3; KIO₃, 0.01; Na₂SeO₃ · 5H₂O, 0.01; KCrS₂O₈, 0.6; sucrose 124.

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Supplemental Table 2. Structural characteristics of CC axons from P40 iron-deficient (Fe-) and control (Fe+) rats^{1,2}

	Fe +	Fe -	<i>P</i> -values
N	3	3	
Myelination, %	92.9 ± 3.3	91.6 ± 4.2	0.69
Myelin Thickness, μm	0.08 ± 0.01	0.08 ± 0.02	1.00
Axon Density ³	142 ± 14.1	125 ± 25.3	0.36
G-Ratio ⁴	0.80 ± 0.06	0.77 ± 0.02	0.49
Lamella, #	8.21 ± 2.08	7.33 ± 2.01	0.32

¹ Results given as mean ± SEM, data represents 3 litters per diet group, with N representing number of offspring used per diet group.

² Abbreviations used: Fe -, offspring of dams fed iron-deficient diet; Fe +, offspring of dams fed iron-sufficient diet

³ Axon density = axons/100 μm^2 .

⁴ G-ratio = myelinated fiber diameter/axon diameter.