

Quantitating Iron Transport across the Mouse Placenta *In Vivo* using Nonradioactive Iron Isotopes

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Materials

Name	Company	Catalog Number	Comments
58Fe-iron metal	Trace Sciences International	Fe-58	
Amicon ultra-15 centrifugal filter, 30 kDa cutoff	Millipore Sigma	UFC903024	
Centrifuge tubes, 15 mL	Fisher Scientific	14-959-49B	
Centrifuge tubes, 50 mL	Millipore Sigma	CLS430829	
Centrifuge, Sorvall Legend Micro 17 Microcentrifuge	Fisher Scientific	75002432	
Centrifuge, Sorvall Legend RT			
Delicate task wipers	Fisher Scientific	06-666	
Diet: iron-deficient (4 ppm iron)	Envigo Teklad	TD.80396	
Diet: standard chow (185 ppm iron)	PicoLab	5053	
Dissecting scissor with 30 mm cutting edge	VWR	25870-002	
Forceps 4-1/2 inch length	McKesson	157-469	
HEPES	Fisher Scientific	BP310-500	
Homogenizer, Bio-Gen PRO200	PROScientific	01-01200	
Human apo-transferrin (apo-Tf)	Celliance	4452-01	no longer available, alternative: Millipore 616419
Hydrochloric acid (HCl)	Fisher Scientific	A144S-500	
Hydrogen peroxide (H ₂ O ₂), 35 wt.% solution in water	Cole-Parmer	EW-88216-36	
Insulin Syringes, BD Lo-Dose U-100	Fisher Scientific	14-826-79	
Isoflurane	VEtone	502017	
Isoflurane vaporizer	Summit Anesthesia Solutions		
Metal heat block	Fisher Scientific		
Micro centrifuge tube with flat screw-cap	VWR	16466-064	
Microcentrifuge tubes 1.5 mL low-retention	Fisher Scientific	02-681-320	
Microcentrifuge tubes 2.0 mL low-retention	Fisher Scientific	02-681-321	

Millex-GP syringe filter unit, 0.22 µm, polyethersulfone, 33 mm, gamma-sterilized	Millipore Sigma	SLGP033RS	
Nitilotriacetic acid (NTA)	Sigma	72560-100G	
Needle 25 G x 5/8 in. hypodermic general use	Fisher Scientific	14-826AA	
pH Strips, plastic pH5.0-9.0	Fisher Scientific	13-640-519	
Razor blades 0.22 mm	VWR	55411-050	
Scale (g)	Mettler Toledo	PB1502-S	
Scale (mg)	Mettler Toledo	Balance XS204	
Sodium bicarbonate (NaHCO ₃)	Sigma	S5761-500G	
Sodium chloride (NaCl)	Fisher Scientific	S671-3	
Sodium hydroxide (NaOH)	Fisher Scientific	SS266-1	
Sterile syringe, slip tip (1 mL)	Fisher Scientific	309659	
Trichloroacetic acid (TCA)	Fisher Scientific	A322-500	
Software			
ImageLab	Bio-Rad		
SigmaPlot	Systat		