



2019

Working

UC Davis - High fat diet feeding 👄

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dx.doi.org/10.17504/protocols.io.xfmfjk6

Mouse Metabolic Phenotyping Centers

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ABSTRACT

Summary

A high-fat diet of varying composition and percent fat is administered to induce obesity in mice. High-fat diet induced obesity is causally associated with insulin resistance and type 2 diabetes. Diets will be provided in consultation with the investigator needs. This service applies to specialized feeding for vendor supplied animals being supplied out of the UC Davis vendor approved barrier facility.

EXTERNAL LINK

https://mmpc.org/shared/document.aspx?id=266&docType=Protocol

MATERIALS

NAME ~	CATALOG #	VENDOR \vee	CAS NUMBER \vee RRID \vee
Teklad 2918 (18% kcal from fat)	Teklad 2918	Harlan Teklad Research	
		Diets	
TD.06415 (45% kcal from fat)	TD.06415	Harlan Teklad Research	
		Diets	
TD.06414 (60% kcal from fat)	TD.06414	Harlan Teklad Research	
		Diets	
D12450B (10% kcal from Fat)	D12450B	Research Lab Diets	
D12451 (45% kcal from fat)	D12451	Research Lab Diets	
D12492 (60% Kcal from fat)	D12492	Research Lab Diets	
58Y1 (60% kcal from fat)	58Y1	Purina Test Diet®	
58V8 (45% Kcal from fat)	58V8	Purina Test Diet®	
58Y2 (10% kcal from fat)	58Y2	Purina Test Diet®	
Mouse cohorts for feeding	C57BL/6J	Jackson Laboratory	IMSR_JAX:000664
Mouse cohorts for feeding	C57BL/6NCrl	Charles River	IMSR_CRL:27
Mouse cohorts for feeding	C57BL/6NTac	Taconic	IMSR_TAC:b6

MATERIALS TEXT

NOTE:

Harlan Teklad Research Diet, Purina Test Diet, and Research Lab Diets must be irradiated and vacuum sealed.

Jackson Laboratory, RRID:SCR_004633 Charles River Laboratories, RRID:SCR_003792 Taconic Biosciences, RRID:SCR_016410

C57BL/6J, IMSR Cat# JAX:000664, RRID:IMSR_JAX:000664 C57BL/6NCrl, IMSR Cat# CRL:27, RRID:IMSR_CRL:27

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C57BL/6NTac, IMSR Cat# TAC:b6, RRID:IMSR_TAC:b6

1	High-fat diet is given ad libitum in mice. Typically mice are started on the diet at 6 weeks of age (for C57BL/6 strains). Age at diet start will be begin in consultation with the investigator needs
2	A stock bag of high-fat diet should be stored in a refrigerator.
3	High-fat diet placed in cages should be replaced 2 times a week to avoid spoilage.
4	Mice will typically eat more in the first 2 weeks of high fat diet feeding. Careful attention to diet intake will be taken during this time.
5	Diet intake measurement and animal weights may be taken in consultation with the investigator as a separate service.
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