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Working

U Cinn - Non-invasive Measurement of Intestinal Fat Absorption 👄

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Mouse Metabolic Phenotyping Centers

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ABSTRACT

Summary:

Dietary fat containing 5% sucrose polybehenate, a non-absorbable food additive, is fed in a semi-synthetic diet containing absorbable fat to rodents. The animals eat the diet ad lib for 3 days. Two or more fecal pellets are collected on days 3 and 4. Fat absorption is calculated from the ratios of behenic acid to other fatty acids in the diet and in the feces as analyzed by gas chromatography of fatty acid methyl esters.

EXTERNAL LINK

https://mmpc.org/shared/document.aspx?id=197&docType=Protocol

MATERIALS

NAME CATALOG # **VENDOR CAS NUMBER** RRID

Rodent Diet With 45 kcal% Fat and Modification To 16% Fat (Mostly Safflower Oil or Butter Fat) With 5% Fat as Sucrose Polybehenate

D07031501-02 Research Lab Diets

Animal Feeding and Fecal Collection:

MONDAY: REPLACE CHOW WITH TEST DIET

TUESDAY: CONTINUE TEST DIET,

NEW CAGE BEDDING BEFORE FEEDING PERIOD

WEDNESDAY: CONTINUE TEST DIET

(DAY 3 - RETURN)

COLLECT 5-8 FECAL PELLETS/ANIMAL

CHANGE CAGE BEDDING BEFORE FEEDING PERIOD

THURSDAY: **COLLECT 5-8 FECAL PELLETS/ANIMAL**

(DAY 4 - RETURN)

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