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

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**Protocol status:** Working

**We use this protocol and it's working**

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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.

## Materials

### MATERIALS



Rodent Diet With 45 kcal% Fat and Modification To 16% Fat (Mostly Safflower Oil or Butter Fat) With 5% Fat as Sucrose Polybehenate **Research Diets Inc Catalog #D07031501-02**

## Troubleshooting



1 **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)**