The impact of milk protein glycation on plasma amino acid responses in healthy young men

No registrations found.

Ethical review	Positive opinion
Status	Recruitment stopped
Health condition type	-
Study type	Interventional

Summary

ID

NL-OMON29239

Source NTR

Brief title Pro-G

Health condition

protein digestion, amino acid absorption

Sponsors and support

Primary sponsor: NUTRIM School for Nutrition, Toxicology, and Metabolism Maastricht University **Source(s) of monetary or material Support:** Friesland Campina

Intervention

Outcome measures

Primary outcome

Plasma amino acids

Secondary outcome

insulin-, and glucose responses.

Study description

Background summary

Protein intake is an essential stimulus for tissue replacement/growth in infants, as well as a strong regulator of muscle protein anabolism in athletes. The anabolic effect of protein ingestion is mainly determined by the plasma amino acid response after ingestion. Although some literature suggests that glycation of proteins can alter digestion and absorption of ingested proteins, this has not yet been extensively assessed in humans. The aim of this study will be to compare the plasma amino acid responses after the digestion of a milk protein powder with varying levels of protein glycation in healthy young men.

Study design

0-6 h

Intervention

Milk protein powder with varying levels of protein glycation

Contacts

Public

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Eligibility criteria

Inclusion criteria

15 healthy young men (18-35 y)

Exclusion criteria

 Smoking - Allergies to milk proteins - Allergies to soya products - Musculoskeletal disorders -Use of any medications known to affect protein metabolism (i.e. corticosteroids, non-steroidal anti-inflammatories, or prescribed acne medications). - Chronic use of gastric acid suppressing medication or anti-coagulants- Unstable weight over the last three months -Pathologies of the gastrointestinal tract - Strictly vegetarian diet - Blood donation in the past 2 months

Study design

Design

Study type:	Interventional
Intervention model:	Crossover
Allocation:	Randomized controlled trial
Masking:	Double blinded (masking used)
Control:	N/A , unknown

Recruitment

NII

Recruitment status:	Recruitment stopped
Start date (anticipated):	02-10-2017
Enrollment:	15
Туре:	Actual

3 - The impact of milk protein glycation on plasma amino acid responses in healthy y ... 12-05-2025

Ethics review

Positive opinionDate:21-3Application type:First

21-11-2017 First submission

Study registrations

Followed up by the following (possibly more current) registration

ID: 44540 Bron: ToetsingOnline Titel:

Other (possibly less up-to-date) registrations in this register

No registrations found.

In other registers

Register	ID
NTR-new	NL6673
NTR-old	NTR6843
ССМО	NL62254.068.17
OMON	NL-OMON44540

Study results