

Complete Care  
Competence

# Your System Partner for Laboratory Animal Science



Diets  
Custom Diets  
Bedding  
Enrichment  
Services





## Premium Service Partner

---

First premise of SAFE® is to offer safe, standardized products of the highest quality for reproducible research results. As all-encompassing system partner, SAFE® has a comprehensive performance spectrum: selected premium raw materials, customized process development by the R&D department, efficient high-quality manufacturing process and global availability due to worldwide presence and logistics.



### One-Stop Shopping

- complete care solutions: diets, custom diets, bedding, enrichment and services
- global sales and logistics structure
- comprehensive service concept



### Manufacturer's Competence

- own production of diets, custom diets, bedding and enrichment
- dedicated plants for consumables for laboratory animal science
- advanced production technologies and strict quality assurance system
- in-house research and individual product development



### Innovation Partner

- permanent innovation force: SAFE® R&D and Technical Competence Center
- active network with animal care scientists and animal care takers, researchers and veterinarians from universities, national health institutes and pharmaceutical companies



### Global SAFE®

- global availability, service and consulting
- own sales and logistics structure worldwide
- comprehensive technology and service network



 **SAFE**  
COMPLETE CARE COMPETENCE

Diets  
Custom Diets  
Bedding  
Enrichment  
Services



## Certified Quality and Safety

---

The quality standards at SAFE® are way higher than the sector averages. SAFE® products are certified by independent, external institutes. Furthermore only certified raw materials from sustainable farming are sourced.

The production takes place in a completely closed process, according to the strict criteria of the DIN EN ISO 9001 and HACCP standards and following the GMP and GLP guidelines.

The ISO-certified environmental and energy management systems are an active contribution of SAFE® to protect the environment.

- certified production
- certified raw material
- controlled quality
- dedicated plant





Premium Scientific Custom Diets



## Specific Diets for all of your Research Programs

SAFE® is your competent and reliable partner for custom diets. With more than 55 years of expertise and recognized leadership, SAFE® formulates and produces special research diets for the international scientific community. Upon request, diets are formulated based on SAFE® standard diets or especially customized formulas.

- expertise and consultancy in diet design
- production on highest quality standards
- flexible and customer-oriented solutions
- short development and delivery times

### Dedicated SAFE® Custom Diet Department and Production Facility

- The Custom Diet department of SAFE® has received all Food and Health accreditations.
- Competent advice by the experienced SAFE® nutritionists during the whole development and production process.
- A team of specialized pharmacists, scientists and engineers supervise this division.
- Best technical facilities: the production unit is equipped with scales and mixers with computer-assisted management systems.







## Customized Diet Solutions

Diets based on standard diets or individual formulas offer a wide range of customized solutions to meet your specific requirements:



- controlled levels of certain elements (Potassium, Sodium, Fats, etc.)
- enriched with target nutrients (Iron, Sodium, Potassium, Cholesterol, etc.)
- purified diets: reformulation of diets on the basis of purified raw materials to obtain high-levels or reduction of elements
- enrichment of highly reduced diets by addition of targeted materials and by using different sources of nutrients
- incorporation of natural raw materials in purified diets
- dosage forms: granular, paste, liquid, gel or powdered

## Certified Quality, Control and Traceability

The SAFE® Custom Diet department is certified and holds different specific authorizations:



- DIN EN ISO 9001, DIN EN ISO 14001
- certificate of approval from the veterinary services for the production of medicated diets and diets containing molecules for research
- authorized for the use of non-viable genetically modified vegetal organisms
- certified and controlled raw materials
- full traceability: each batch is controlled and recorded on a computer data base

### Customized Dosage Forms



# Custom Diets – Selected Solutions of the SAFE® Portfolio

## REFERENCE DIETS AND LOW FLUORESCENCE DIETS



### SAFE® 210

Control diet, 10 % of the energy from fat

## HIGH FAT DIETS, ENRICHED WITH SUGARS



### SAFE® 260 HF

60 % of the energy from fat (butter)

## HYPERCHOLESTEROLIZING DIETS



### SAFE® Western 1635

0.2 % Cholesterol, 21 % Butter

## DIETS HIGH IN CELLULOSE



### SAFE® High fiber Rabbit

## MACRONUTRIENT DIETS: PROTEINS, FATS



### SAFE® MCD

0.1 % Methionine, 60 % energy via fat (NASH model)

## ALTERED MINERAL OR MICRONUTRIENT DIETS



### SAFE® Iron deficient

## ALTERED VITAMIN DIETS



### SAFE® A03

Vitamin D deficient (Osteoporosis, rickets)

## DIETS INDUCING A PHENOTYPE



### SAFE® A03

1 g/kg Doxycycline Hyclate

## DIETS WITH YOUR OWN INGREDIENTS



### SAFE® Diet

Compound: oil, plant extracts

#### Product Dosage Form

- pastes
- granules
- liquids and gels
- powdered form

#### Packaging

- buckets (1, 2, 3, 5 liters), pots (100 g), bags (1 to 10 kg)
- suited to the health status of your animal facility

#### Deliveries

- minimum order 10 kg per diet
- average lead time 10 working days
- additional 7 working days for irradiated batches
- for any non-standard presentation, lead time on request

#### Optional Services

- supply of ingredients or raw materials (for ingredients supplied by the client, a safety data sheet is required)
- complete analytical control of non-standard diet (antibiotic test included)

#### IRRADIATION (recommended)

- possible irradiation dose: 10, 25 to 40 kGy
- homogeneous irradiation technique: bag by bag
- irradiated products are vacuum-sealed

**REFERENCE DIETS AND LOW FLUORESCENCE DIETS**

SAFE® AIN-76A	
SAFE® AIN-93G	
SAFE® 210	control diet, 10 % of the energy from fat

**HIGH FAT DIETS, ENRICHED WITH SUGARS**

SAFE® 230 HF	60 % of the energy from fat (lard)
SAFE® 231 HF	70 % of the energy from fat (lard)
SAFE® 235 HF	45 % of the energy from fat (lard)
SAFE® 236 HF	72 % of the energy from fat (lard)
SAFE® Keyes high in saccharose (Cariogenic)	
SAFE® Hyperglucidic 30 % Sucrose	
SAFE® 245 HF	45 % of the energy from fat (D12451 Premix AIN)
SAFE® 233 HF	61 % of the energy from fat (D12492 Premix AIN)
SAFE® 260 HF	60 % of the energy from fat (butter)
SAFE® 107 HF	15 % fat from lard /Monkey high fat diet
SAFE® 246 HF	45 % energy from lipids (butter)

**HYPERCHOLESTEROLIZING DIETS**

SAFE® Rabbit 110	+ 0.3 % Cholesterol
SAFE® A04	+ 16 % Cocoa Butter + 1.25 % Cholesterol
SAFE® 214 B	+ 4.5 % Cholesterol
SAFE® 214 S	+ 2.0 % Cholesterol
SAFE® 214 H	+ 0.5 % Cholesterol
SAFE® Western 1635	0 % Cholesterol, 21 % Butter
SAFE® Western 1635	0.15 % Cholesterol, 20 % Butter
SAFE® Western 1635	0.20 % Cholesterol, 21 % Butter
SAFE® Pig Western	+ 1 % Cholesterol + 4 % Salt + 11% Egg Yolk
SAFE® Pig Western	+ 4 % Cholesterol + 4 % Salt + 0.5 % Cholate

**DIETS HIGH IN CELLULOSE**

SAFE® A03	+ 20 % Cellulose
SAFE® A04	+ 20 % Cellulose
SAFE® High Fiber Rabbit	

**MACRONUTRIENT DIETS: PROTEINS, FATS**

SAFE® Lieber-DeCarli 1982 Alcohol diet – Powder	
SAFE® Lieber-DeCarli 1982 Alcohol diet – Oils	
SAFE® Ketogenic 1711	
SAFE® Hyperproteinic 61 % Protein	
SAFE® Hyperproteinic 51 % Protein	
SAFE® Hyperproteinic 5 % Protein	
SAFE® A04 low protein 10 %	
SAFE® MCD	+ 57 % Sucrose Methionine/Choline deficient (NASH model)
SAFE® MCD	0.1 % Methionine 60 % energy via fat (NASH model)
SAFE® MCD AIN 76A (NASH model)	

**ALTERED MINERAL OR MICRONUTRIENT DIETS**

SAFE® A04	+ 0.01 % Sodium
SAFE® A03	+ 0.12 % Sodium (without salt and bicarbonate)
SAFE® A03	+ 8 % salt + 0.76 % Potassium Chloride
SAFE® A04	+ 1.2 % Phosphorus + 1.04 % Calcium
SAFE® A04	+ 0.75 % Adenine + 1.1 % of Calcium + 0.9 % of Phosphorus
SAFE® Iron deficient	
SAFE® Low Se and Vit. E (Cardiovascular disorders, inflammatory,...)	
SAFE® Iodine deficient	
SAFE® Deficient Na 0.15 % / K 0.11 % / P 0.1 %	
SAFE® Deficient Phosphorus 0.1 %	

**ALTERED VITAMIN DIETS**

SAFE® A03	Vitamin D deficient (Osteoporosis, rickets)
SAFE® A04	Vitamin K deficient (Osteoporosis, Leukemia,...)
SAFE® A04	Vitamin A deficient (Xerophthalmia)
SAFE® Low folic acid (Gastrectomy, celiac disease,...)	

**DIETS INDUCING A PHENOTYPE**

SAFE® A03	0.2 g/kg Doxycycline Hyclate
SAFE® A03	0.625 g/kg Doxycycline Hyclate
SAFE® A03	1 g/kg Doxycycline Hyclate
SAFE® AIN-93G	0.2 g/kg Doxycycline Hyclate
SAFE® AIN-93G	0.625 g/kg Doxycycline Hyclate
SAFE® AIN-93G	1 g/kg Doxycycline Hyclate
SAFE® A03	+ 2 g/kg Fenofibrate
SAFE® A04	0.25 g/kg Tamoxifen + 5 % Sucrose
SAFE® A04	0.5 g/kg Tamoxifen + 5 % Sucrose
SAFE® 150	0.25 g/kg Tamoxifen + 5 % Sucrose
SAFE® AIN-93G	0.25 g/kg Tamoxifen

**DIETS WITH YOUR OWN INGREDIENTS**

SAFE® Standard Diet	+ Probucol, Rosiglitazone, Eplerone, Quercetin
SAFE® Standard Diet	+ Inulin, Clay, Maltodextrin, Prebiotics, Omega 3-6-9, Fatty Acids, Silica, Ethanol Lieber-DeCarli

**MEDICATED DIETS, ADDITIVES, ACTIVE INGREDIENT**

Wide-spectrum antiparasitic drug\*

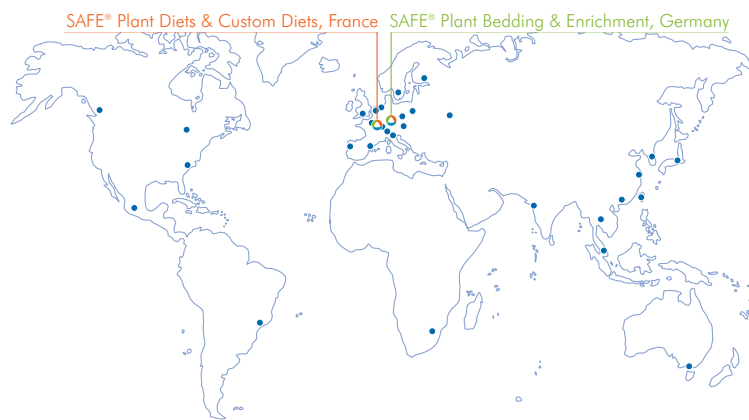
\* In order to comply with European Community regulation a veterinary prescription is compulsory before any production starts.

For a diet containing a molecule, it is mandatory to provide the facility registration and the license of the experimenting on animals.



## Worldwide

---



### PRODUCTION SITE DIETS

SAFE  
89290 AUGY (France)  
Phone +33 386537690  
info@safe-lab.com

### WORLDWIDE HEADQUARTERS

J. Rettenmaier & Söhne GmbH + CO KG  
73494 Rosenberg (Germany)  
Phone +49 7967 152-434  
service@safe-lab.com



Diets  
Custom Diets  
Bedding  
Enrichment  
Services

[www.safe-lab.com](http://www.safe-lab.com)