



1314 / 1324 TPF

Total Pathogen Free Feeding Stuff
Breeding / Maintenance diet for rats and mice

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Please visit our website <http://www.altromin.de>.

Lage, 2008-02-22

Dear Sir or Madam,

I am very pleased to present you today, as a preferential customer of the Altromin Spezialfutter GmbH & Co. KG, a new product.

With more than 40 years experience in animal nutrition we addressed oneself to the task to develop special high-quality and standardized solutions for experimental livestock husbandries.

TPF - Total Pathogen Free feeding stuff is a cheap and safe alternative for SPF-barriers or other areas where an absolutely abacterial status is needed. TPF is available as breeding and maintenance diet for rats and mice.

Please find attached a free sample with a detailed documentattion of the TPF product.

Thank you very much for you interest in Altromin diets.

For all questions please do not hesitate to contact us.

Mit freundlichen Grüßen

H.-L. Altrogge
Managing director

1314 / 1324 **TPF** - **TOTAL PATHOGEN FREE** Breeding / Maintenance diet for rats and mice

We are very pleased to present you our new product **TPF – Total Pathogen Free** feeding stuff.

Our scientists and technologists have developed a completely new manufacturing method which effectively reduces the microbiological germ status like autoclaved or irradiated feeding stuff.

TPF is particularly suitable for use in SPF-barriers or areas where an absolutely abacterial status is needed. By using a modern double vacuum packaging the risk of recontamination can be eliminated.

TPF animal feed is available as high standardized breeding and maintenance diet for rats and mice, 10mm pelletized.

The advantages of TPF at a glance:

- **time and cost savings** because of elimination of the autoclaving and irradiating process – no changes in chemical characteristics as a effect of heat
- **30%** cheaper than irradiated feeding stuff
- **safety** - TPF will be delivered with a batch-based microbiological analysis report
- **sterile**, double vacuum packaging avoids recontamination
- upper foil can be removed and the packaging channeled into the barrier via dip tank
- 12 months **minimum durability**
- **lightweight packages** à 5 kg, 2 packages per unit
- **standardized** breeding and maintenance diets in known Altromin quality

Specification

Contents of crude nutrients

	1314 TPF	<i>Tolerances*</i>	1324 TPF	<i>Tolerances*</i>
Water/Moisture	10.0	< 11.0	10.0	< 11.0
Crude protein	22.5	20.5 – 25.5	19.0	17.0 – 22.0
Crude fat	5.0	4.2 – 6.2	4.0	3.2 – 5.2
Crude fiber	4.5	3.1 – 5.4	6.0	4.65 – 6.9
Crude ash	6.5	4.55 – 7.15	7.0	4.9 – 7.7

* **Tolerances** according to „Guidelines for the quality-secured production of animal feeding stuff“, German Society for Laboratory Animal Science (GV-SOLAS), August 2001

Please find further information in our attached catalogue of standard diets (item no. 1310 / 1320).

Mikrobiological germ status

Aerobic total germ count	< 1,0 x 10 ¹ cfu/g
Anaerobis total germ count	< 1,0 x 10 ¹ cfu/g
Pathogenic, spore forming and food spoiling microorganism	< 1,0 x 10 ¹ cfu/g

see attached mikrobiological analysis report

TPF feeding stuff is also available as diet deficient in nitrosamines and deficient in phytoestrogens.