



# Assessment of safety and efficacy for the target species: zootechnical feed additives





#### REGULATION (EC) No 1831/2003 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

of 22 September 2003

on additives for use in animal nutrition

#### Zootechnical Feed Additives

THE EUROPEAN PARLIAMENT AND THE COUNCIL OF THE EUROPEAN UNION.

thereto. It is therefore necessary to subject imports from third countries of additives for use in animal nutrition to requirements equivalent to those applying to additives

# Used to affect favorably the performance of animals in good health or the environment

Having regard to the opinion of the European Economic and the precautionary principle.

Having regard to the opinion of the European Economic and Social Committee (2),

Following consultation of the Committee of the Regions, Ona 7 GIR Quarter Sth Article 153 of the Treaty, the Community is to contribute to promoting the right of consumers to information.

Acting in accordance with the procedure laid down in Article

1. Digestibility enhancers (for enzymes)

2. Gut flora stabilisers (for micro-organisms)3. Substances which affect the environment

4. Other zootechnical additives to take into account the fact that techno-

(2) The free movement of safe and wholesome food and feed is an essential aspect of the internal market and contributes significantly to the health and well-being of citizens, and to their social and economic interests. animal and human health and of the environment. It is the second progress and scientific developments have made available new types of additives, such as those to be used on silage or in water.

This Deculation should also cover mixtures of additives

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### Primary legislation requires

THE EUROPEAN PARLIAMENT AND THE COUNCIL OF THE EUROPEAN UNION, CEMONSTRATE THE EUROPEAN UNION, CEMONSTRATE OF THE EUROPEA

Having regard to the Treaty establishing the European Com-

munity, and in particular Articles 37 and 152(4)(b) thereof,

Safety
Having regard to the proposal from the Commission (1),

(6) Action by the Community relating to human health, animal health and the environment should be based on

produced in the Community.

Having regard to hopiniontal openterand in a She precautionary principle. Social Committee (

- for consumers of animal products

Acting in accordant Oils thusers do (including meters) 251 of the Treaty (

Whereas:

- for the environment entering with the application of Council Directive 70/

- Livestock production occupies a very important place in the agriculture of the Community. Satisfactory results depend afife Cacyuse of safe and good-quality it is a cacyuse of safe and good-
- The free movement of safe and wholesome food and (2) feed is an essential aspect of the internal market and contributes significantly to the health and well-being of citizens, and to their social and economic interests.

524/EEC of 23 November 1970 concerning additives in feedingstuffs (\*) has shown that it is necessary to review all the rules on additives in order to take into account the need to ensure a greater degree of protection of animal and human health and of the environment. It is also necessary to take into account the fact that technological progress and scientific developments have made available new types of additives, such as those to be used on silage or in water.

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## Safety

 A majority (~70%) of zootechnical additives are based on microorganisms or enzymes for which conventional toxicological testing may not be appropriate or necessary.

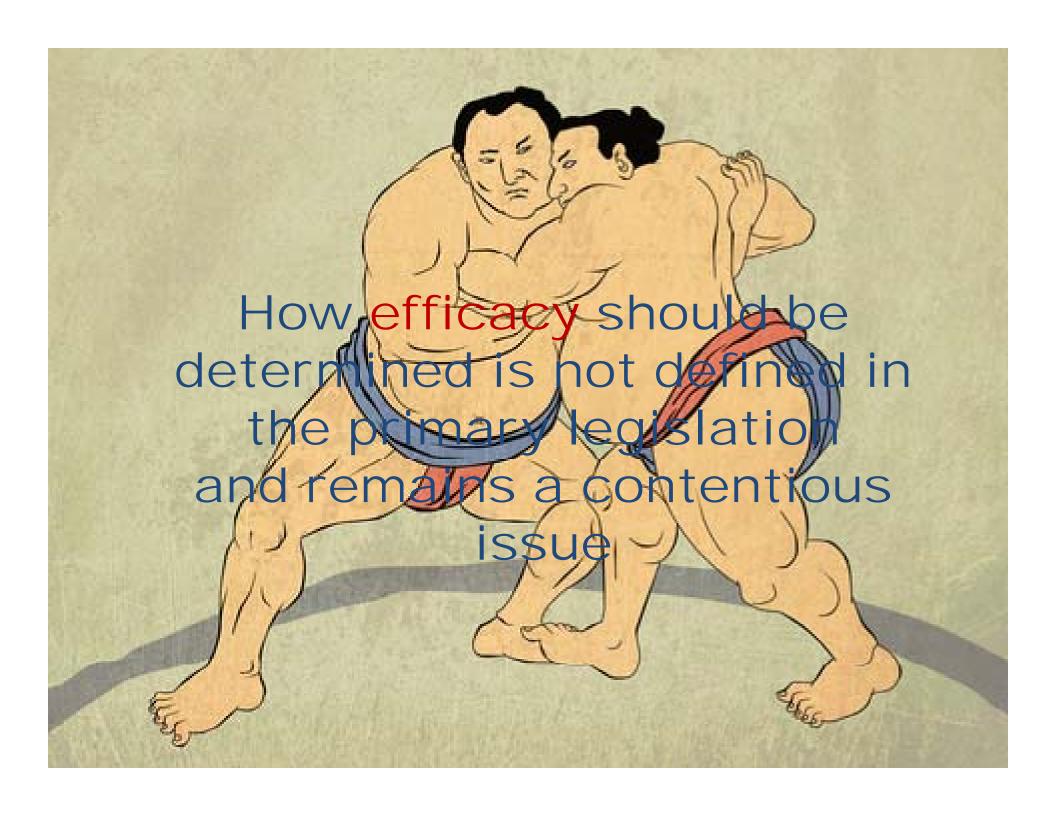
## Safety

Enzymes may be highly purified by ultrafiltration with much reduced contamination with low-molecular weight compounds

Full genome of micro-organisms with bioinformatic analysis readily available

## Safety

- QPS approach established for micro-organisms.
- Most micro-organisms commonly introduced into the food chain do not require routine testing other than for:
- 1. antibiotic resistance
- 2. known virulence factors



# What constitutes evidence of efficacy?

Credibility

Biomarker

Short-term *in vivo* study

Performance trials

#### Performance trials

How many (and how long)?

One trial equivalent to none

50+ trials might allow quantification of effect under most practical situations

Present compromise

Three trials with significant beneficial results

This only allows the conclusion that the additive shows the potential to improve performance



### Efficacy and health

"Used to affect favorably the performance of animals in good health"

#### Most zootechnical additives:

- Show greatest effects with very young vulnerable animals and with animals in less than good health
- ➤ Beneficial effects are more difficult to demonstrate when husbandry and facilities are of high standard

#### In conclusion

Following the principles of the General Food Law the use of feed additives must be safe for the consumer and any claims made should not to mislead the user.

However, the primary consumer of a feed additive is the target animal

Most farmed animals do not have choice when it comes to food selection