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**Technical guidelines for efficacy studies of feed material and
feed additive in aquaculture target animals**

饲料原料和饲料添加剂水产靶动物有效性评价试验技术指南

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Table of Contents

1 Scope	1
2 Terms and definitions	1
3 Basic principles	2
4 Types of study	2
5 Test substance	3
6 Design of the study protocol	3
6.1 Overall requirements	3
6.2 Information on the test substance	3
6.3 Test feed	3
6.4 Test animals and grouping	3
6.5 Study period	3
6.6 Husbandry management	4
6.7 Observation and measurement indicators	4
6.8 Methods of measurement	4
6.9 Statistical analysis	4
7 Conduct of the study	4
8 Study report	4
9 Filing of records	5
Annex A (normative) Number of replicates, number of animals per replicate and study period for long-term efficacy evaluation studies	6
Annex B (informative) Cover of the study report	8
Annex C (informative) Study summary table	9

Foreword

This instructional document has been drafted in accordance with the rules given in GB/T 1.1-2009. This Guidance Document is proposed and managed by the National Feed Industry Standardization Technical Committee (SAC/TC76). The drafting of the guidance of technical documents. National Feed Review Committee, Chinese Academy of Fisheries Freshwater Fisheries Research Center. The main drafters of this technical guidance document Wang Liwen, Xie Jun, Xue Min, Ding Jian, Du Wei. Feed ingredients and feed additives Aquatic target animals Effectiveness Evaluation Test Technical Guide

1 Scope

This guiding technical document specifies the basic principles, the types of study, the test substance, the design of the study protocol, the conduct of the study, the study report and the requirements on the filing of records for studies evaluating the efficacy of feed materials and feed additives in aquatic target animals. This guiding technical document applies to studies evaluating the efficacy of feed materials and feed additives whose target animals are aquatic animals.

This Guidance Document specifies the basic principles for the evaluation of the effectiveness of feed animal and feed additive aquatic target animals, Type, test substance, test program design, test implementation, test reports and data archiving requirements. This guideline is applicable to the evaluation of the effectiveness of feed ingredients and feed additives that target aquatic animals.

2 Terms and definitions

The following terms and definitions apply to this document.

2.1 Target animal targetanimal Specific animal feed ingredients or feed additives.

2.2 Test substance testsubstance Samples of feed ingredients or feed additives evaluated.

2.3 Long-term effectiveness evaluation test long-termefficacystudy Close to the actual production conditions, to represent the target animal feeding stage for the feeding period for the test period, by observing the target animal Production performance, physiological and biochemical indicators, health status, evaluation of the specific application stage of the test substance feeding effect test.

2.4 Short-term effectiveness evaluation test short-termefficacystudy In a relatively short period of time can test the specific efficacy of the test substance, including but not limited to bioavailability test, bioequivalence test, In vivo digestion test, income and expenditure test and palatability test.

2.5 Bioavailability The active substance or its metabolites in the test substance are absorbed, transported to the target tissue or target cells and exhibit a typical function or effect.

2.6 Bioequivalence bioequivalence Both subjects have the same biological function or effect on the target animal.

2.7 In vivo digestion test invivodigestionstudy By determining the target animal intake of certain nutrients or energy and excreted manure, and then evaluate the nutrients or energy in animal digestion Road within the degree of digestion and absorption test.

2.8 Revenue and expenditure test By measuring and comparing the target animal intake of

certain nutrients or energy and the relationship between emissions, and then evaluate the nutrients or can The amount of intake, discharge and deposition of the relationship between the body of the test.

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