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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 18654.11-2008

**Inspection of germplasm for cultured fishes -- Part 11:
Determination of amino acids content in muscle**

养殖鱼类种质检验 第11部分：肌肉中主要氨基酸含量的测定

(English Translation)

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Foreword

GB/T 18654 "Inspection of germplasm for cultured fishes" is divided into the following sections.

- Part 1. Inspection rules;
- Part 2. Sampling methods;
- Part 3. Determination of traits;
- Part 4. Determination of age and growth;
- Part 5. Diet analysis;
- Part 6. Determination of reproductive performance;
- Part 7. Ecological Characteristics;
- Part 8. Determination of the oxygen consumption rate and the critical point of suffocation;
- Part 9. Includes meat for determination;
- Part 10. Determination of muscle nutrients;
- Part 11. Determination of the major muscle amino acid contents;
- Part 12. karyotype analysis;
- Part 13. isoenzyme electrophoresis analysis;
- Part 14. Determination of DNA content;
- Part 15. RAPD analysis;

This section GB/T Part of 1,118,654.

This section proposed by the People's Republic of China Ministry of Agriculture.

This part of the National Standardization Technical Committee of aquatic freshwater aquaculture division Technical Committee.

This section is drafted. Shanghai Fisheries University, Chinese Academy of Fishery Sciences, Yangtze River Fisheries Research Institute.

1 Scope

GB/T 18654 provisions of this part of the reagents and materials, equipment and facilities mainly in fish muscle amino acid content determination, sampling, Analysis procedures and results determined.

This section applies to the determination of the main amino acid content in fish muscle does not apply to the determination of tryptophan content.

2 Normative references

The following documents contain provisions which, through reference GB/T 18654 in this section constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

Determination of GB/T 14769 moisture in foods GB/T 18654.1-2002 test germplasm for cultured fishes - Part 1. Inspection Rules GB/T 18654.2 Inspection of germplasm for cultured fishes - Part 2. Sampling Method GB/T 18654.9-2002 test germplasm for cultured fishes - Part 9. Includes meat for determination Determination of muscle nutrients. Part 10 GB/T 18654.10-2002 Inspection of germplasm for cultured fishes

3 Reagents and materials

Unless otherwise indicated in the analysis using only recognized as analytical grade reagents and distilled or deionized water or equivalent purity.

3.1

trisodium citrate.

3.2

hydrochloric acid (HCl).

3.3

thiobis ethanol.

3.4

phenol.

3.5

pH2.2 citrate buffer solution. 19.6 g of sodium citrate, dissolved in water, hydrochloric acid was added 16.5mL, 25% ethanol thiobis 5mL, phenol 1g, final volume to 1000mL.

3.6

cryogen (liquid nitrogen or dry ice and acetone).

3.7

plastic bags.

3.8

label.

4 Instruments and equipment

4.1

Analysis of balance. a sense of the amount of 0.0001g.

4.2

automatic amino acid analyzer.

4.3

mill.

4.4

sieve. aperture of 0.25mm, dried at room temperature.

4.5

blowtorch.

4.6

vacuum pump.