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

SN/T 3502-2013

**Rapid screen of clenbuterol residues with nano magnetic
particles. Immunechromatographic assay
(English Translation)**

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4.1 Reagents

Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

Please note that some of the content of this document may involve patents. Distribution of this document Institutions should not bear the responsibility to identify these patents.

This standard is proposed and managed by the National Certification and Accreditation Administration Committee.

This standard was drafted. People's Republic of China, Shenzhen CIQ, Shenzhen Inspection and Quarantine Science Research Institute, Tsinghua University Shenzhen Graduate School, Shenzhen Key Laboratory of harmful alien biomass detection technology development.

1 Scope

This standard specifies the use of nano-magnetic immunity chromatography, foods of animal origin, feed and pig urine clenbuterol residues in Rapid screening tests.

This standard applies to foods of animal origin, feed and urine samples in the rapid screening of Clenbuterol qualitative detection.

The standard detection limit of 0.1µg/kg.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

Laboratory use specifications and test methods GB/T 6682 Analysis GB/T 14699.1 feed samples GB/T 18088 Entry and Exit Animal Quarantine sampling SN/T 2123 Entry and Exit Animal Quarantine experimental sample collection, transport and storage specifications

Principle 3 in this method, immunochromatography the competitive inhibition method, its main principle is. by bovine serum albumin conjugated anti-clenbuterol Original, anti-mouse IgG antibody, nano superparamagnetic-labeled anti-clenbuterol antibody and other reagents fixed nitrocellulose membrane, glass fiber Test strip made of paper on plain film membranes, apply the principles of competition law formula chromatography sample is detected clenbuterol residues. Samples salt Clenbuterol acid in the process of flowing nano-cellulose membrane with glass beads labeled specific anti-clenbuterol antibody binding, inhibition Antibody test line and a nitrocellulose membrane BSA - clenbuterol conjugate antigen binding, to the detection line is satisfied Reduce the amount of rice beads, using a magnetometer and the sample values measured magnetic strip interpretation detection line to get in the clenbuterol content into Inversely proportional.

4.1.1 Reagent grade

Except as otherwise provided, the method should meet the two test water water GB/T 6682 provisions, the use of chemical reagents were of analytical grade.

4.1.2 Clenbuterol nanometer magnetic immunochromatographic rapid test strip.

4.1.3 rinse (see Appendix A Formulation of A.1).

4.1.4 0.1mol/L hydrochloric acid solution.

4.1.5 1.0mol/L sodium hydroxide solution.

4.1.6 pH7.40.02mol/LPBS solution (see recipe A.2).