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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 1444-2004

Indirect immunofluorescent antibody technique for epidemic hemorrhagic fever of rats

大鼠流行性出血热间接免疫荧光试验

(English Translation)

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Foreword

Appendix A of this standard is a normative appendix.

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

This standard was drafted. Shanghai Entry-Exit Inspection and Quarantine Bureau of the People's Republic of China.

1 Scope

This standard specifies the method for detecting antibodies to epidemic hemorrhagic fever in rats by indirect immunofluorescence assay.

This standard applies to quarantine, epidemiological investigation and immune monitoring of epidemic hemorrhagic fever in rats.

2.1 Reagents

2.1.1
Disodium hydrogen phosphate (Na2HPO4.12H2O).

2.1.2
Potassium dihydrogen phosphate (KH2PO4).

2.1.3
Sodium chloride (NaCl).

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2.1.4
Evans Blue.

2.1.5
Glycerin.

2.1.6
Preparation of 0.01mol/L pH7.4 phosphate buffer, 0.01%-0.02% Evans blue solution and 90% glycerol buffered saline Record A.

Note; all chemical reagents are of analytical grade.

2.2 Instrumentation

2.2.1
Single channel adjustable pipette and dosing head.

2.2.2
Dyeing tank.

2.2.3
Humidors.

2.2.4
coverslips.

2.2.5
Thermostat.

2.2.6
Low temperature refrigerator.

2.2.7
Acidity meter.

2.2.8
Fluorescence microscope.

2.3 Standard reagents

2.3.1
Porous epidemic hemorrhagic fever virus antigen tablets (preserved at -20 ° C).

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2.3.2
Epidemic hemorrhagic fever positive serum.

2.3.3
Epidemic hemorrhagic fever negative serum.

2.3.4
Fluorescein isothiocyanate (FITC)-labeled rabbit anti-rat IgG fluorescent antibody.

3 Sampling

The rats to be tested were aseptically collected from 0.5 mL to 1.0 mL. After the blood was coagulated, it was centrifuged at 2000 r/min for 10 min to separate the serum. serum After being inactivated at 56 ° C for 30 min, it was stored at -20 ° C for use.

4.1 Preparing the antigen tablets

The epidemic hemorrhagic fever virus cell antigen tablets were taken out from the low temperature refrigerator and dried by cold air.

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