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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3824-2014

Cosmetics phototoxicity test - Red blood cell assay(photohaemolysis and haemoglobin oxidation)

化妆品光毒性试验 联合红细胞测定法

(English Translation)

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Foreword

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

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

This standard was drafted. People's Republic of China Beijing Entry-Exit Inspection and Quarantine Bureau, People's Republic of China Guangdong Entry-Exit Inspection and Quarantine Bureau.

1 Scope

This standard specifies the cosmetics phototoxicity test joint RBC assay procedures, including hemoglobin and red blood cell hemolysis test Oxidation test.

This standard applies to screening and detection in vitro phototoxicity test cosmetic raw materials and final products.

This standard can be used as part of the phototoxicity test, combined with other alternatives to animal testing and phototoxicity test was carried out as a whole Evaluation.

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.

GB/T 6682 analytical laboratory use specifications and test methods GB/T 21769 chemicals in vitro 3T3 neutral red uptake phototoxicity test methods SN/T 2285 In vitro alternatives Cosmetics Laboratory Practice

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3 Terms and Definitions

The following terms and definitions apply to this document.

Phototoxicity Skin contact with certain chemicals first and then exposed to an acute toxicity caused by light, or the application of a body of After learning the material, similar to the skin is exposed to light irradiation reaction occurred.

Irradiance irridance Exposure to the ultraviolet rays of a surface (UV) or visible (Vis) intensity in watts per square milliwatts per square meter (W/m2), or Square centimeter (mW/cm2).

Light dose doseoflight Irradiating a surface of the UV or visible light quantity (intensity x time), in joules per square meter (J/m2), or joules per Square centimeter (J/cm2).

Light hemolysis photohaemolysis Toxic substances in the presence of light, after dissolution of red blood cells by ultraviolet or visible light, it can be dissolved by measuring the degree of release the amount of hemoglobin into the supernatant is determined that the optical density at 540nm.

Hemoglobin oxidation haemoglobinoxidation Toxic substances in the presence of bright, red blood cells after irradiation by UV or visible light can cause oxidation of hemoglobin to form methemoglobin

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