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Paper and board - Determination of the cytotoxicity of aqueous extracts using a metabolically competent hepatoma cell line (HepG2)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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ICS 85.060

English Version

Paper and board - Determination of the cytotoxicity of aqueous extracts using a metabolically competent hepatoma cell line (HepG2)

Papier et carton - Détermination de l'effet cytotoxique d'extraits aqueux en utilisant une lignée cellulaire d'hépatome possédant des enzymes du métabolisme (cellules HepG2)

Papier und Pappe - Bestimmung der Zytotoxizität von wässrigen Extrakten unter Verwendung einer metabolisch kompetenten Hepatom-Zelllinie (HepG2)

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| Contents | Page |
|--|-------------|
| Foreword..... | 3 |
| 1 Scope | 4 |
| 2 Normative references | 4 |
| 3 Terms and definitions | 4 |
| 4 Principle | 5 |
| 5 Reagents | 5 |
| 6 Cell line | 7 |
| 6.1 Generating the cell strain | 7 |
| 6.2 Maintaining the cell strain | 7 |
| 6.3 Storing the cell strain | 8 |
| 7 Food simulants used for testing | 8 |
| 7.1 Reference water (3.1) | 8 |
| 8 Cleaning laboratory glassware | 8 |
| 8.1 Cleaning liquids for laboratory glassware | 8 |
| 8.2 Cleaning procedure for laboratory glassware | 8 |
| 9 Equipment | 9 |
| 9.1 Equipment for the migration test | 9 |
| 9.2 Cell culture equipment | 9 |
| 9.3 Equipment used for cytotoxicity testing | 9 |
| 10 Preparation of specimens | 10 |
| 10.1 General | 10 |
| 10.2 Paper and board intended for wet contact | 10 |
| 11 Cytotoxicity assessment | 10 |
| 11.1 Principle | 10 |
| 11.2 General | 10 |
| 11.3 Cell seeding | 11 |
| 11.4 Preparation of samples | 11 |
| 11.5 Cell culture treatment | 11 |
| 11.6 Preparation of the chromatography sheet | 12 |
| 11.7 Kinetics of uridine incorporation in the cell RNA | 12 |
| 11.8 Measurements of the RNA synthesis | 12 |
| 12 Expression of the results | 13 |
| 12.1 Graphic representation of the results | 13 |
| 12.2 Calculation of percentage RNA synthesis and the validity of the test | 14 |
| 13 Interpretation of the results | 15 |
| 13.1 Results for the reference sample | 15 |
| 13.2 Results of the positive control sample | 15 |
| 13.3 Results for the test sample | 15 |
| 14 Precision | 15 |
| 15 Test report | 15 |
| Annex A (informative) 96-well plates configuration | 17 |
| Annex B (informative) RNA Synthesis rate inhibition cytotoxicity test work flow | 18 |
| Annex C (informative) Validation of the two methods (option A and B) | 19 |
| Bibliography | 20 |

Foreword

This document (EN 16418:2014) has been prepared by Technical Committee CEN/TC 172 "Pulp, paper and board", the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2014 and conflicting national standards shall be withdrawn at the latest by October 2014.

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1 Scope

This European Standard specifies a test method for the laboratory assessment of the potential cytotoxic effect of paper and board intended to come into contact with foodstuffs using specifically the HepG2 cell line.

Compared to the EN 15845^[1], HepG2 cells are more representative of a human oral exposure to xenobiotics, due to the presence in the cells of phase I, II and III enzymes of the metabolism.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 645, *Paper and board intended to come into contact with foodstuffs - Preparation of a cold water extract*

EN 647, *Paper and board intended to come into contact with foodstuffs - Preparation of a hot water extract*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN