ECACC General Cell Collection: 12040401 HT29-MTX-E12

Coronavirus (COVID-19): Culture Collections is committed to supporting Public Health England (<u>PHE</u>) in the delivery of essential services central to the COVID-19 response. We have therefore temporarily suspended dispatch of orders and provision of all services until further notice to release staff to other departments. Thank you for your patience and understanding during this challenging time. <u>Find out more</u>

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General Cell Collection Detail

ECACC General Cell Collection: HT29-MTX-E12

Supplied by: European Collection of Authenticated Cell

Cultures (ECACC)

Culture Type: Cell line

Collection: ECACC General Collection

Catalogue No.: 12040401
Cell Line Name: HT29-MTX-E12

Citation Guidance: If use of this culture results in a scientific

publication, it should be cited in the publication as: HT29-MTX-E12 (ECACC

12040401)

Keywords: HT29, HT29-MTX, methotrexate, mucous

layer, intestinal permeation, oral drug

absorption

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Training Courses

Cell Line Description:

Species:

Tissue of Origin:

HT29 cells were differentiated into mature goblet cells using methotrexate. Mucoussecreting HT29-MTX subclones were isolated from this cell clone and characterized with regard to tight junction formation, development of confluent monolayers and production of a mucous layer. HT29-MTX-E12 provides a model

system to study the influence of the mucous

layer on nanoparticle diffusion. Human

Colon

CellType: Epithelial

Growth Mode: Adherent

DNA Profile: STR-PCR Data:

Amelogenin: X CSF1PO: 11,12 D13S317: 11 D16S539: 11,12 D5S818: 11,12 D7S820: 10 THO1: 6 TPOX: 8,9 vWA: 17 Virus LENTICULE discs

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Biosafety Information:

Unless specified otherwise, at the European Collection of Authenticated Cell Cultures (ECACC) we routinely handle all of our cell lines at containment level 2 in accordance with the ACDP guidelines. ACDP = Advisory Committee on Dangerous Pathogens (UK)

All cell cultures have the potential to carry as yet unidentified adventitious agents. It is the responsibility of the end user to ensure

that their facilities comply with biosafety

regulations for their own country.

ACDP Guidance: Biological agents: Managing the risks in laboratories and

healthcare premises.

Hyperlinks to MSDS documents:

Frozen cell cultures Material Safety Data

Sheet

Growing cell cultures Material Safety Data

Sheet

Nucleic acids derived from cell cultures

Material Safety Data Sheet

Subculture Routine:

Split subconfluent cultures (70-80%) 1:3 to 1:6 using 0.25% trypsin/EDTA; 7.5-10% CO₂; 37°C. Suggested seeding density 2-4x10,000 cells/cm².

Culture Medium:

DMEM + 2mM Glutamine + 1% Non essential amino acids + 10% Foetal Bovine Serum (FBS).

Depositor:

Professor David Brayden, Associate Professor of Drug Delivery and Kevin McMahon, Senior Technical Officer, University College Dublin, UCD School of Veterinary Medicine, Belfield, Dublin 4, IRELAND. Originator: Professor Per Artursson, Uppsala University, Sweden.

Originator: No

Country: Ireland

References: Behrens I, Stenberg P, Artursson P, Kissel

T. 2001 Transport of lipophilic drug molecules in a new mucus-secreting cell culture model based on HT29-MTX cells.

Pharm Res. 18:1138-45. PMID: 11587485.

Additional Bibliography: Keely S, Rullay A, Wilson C, Carmichael A,

Carrington S, Corfield A, Haddleton DM, Brayden DJ. 2005 In vitro and ex vivo intestinal tissue models to measure mucoadhesion of poly (methacrylate) and N-trimethylated chitosan polymers. Pharm

Res. 22:38-49. PMID: 15771228.

Patents: None specified by Depositor

Release Conditions: No



Product Images

- 12040401 HT29-MTX-E12 72hr
- 12040401_HT29-MTX-E12_96hr
- 12040401_HT29-MTX-E12_120hr

Note: Links open in a new window



Product Documents

- 12040401_HT29-MTX-E12_Growth Profile
- 12040401 HT29-MTX-E12 Images
- Passage numbers explained

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ECACC General Cell Collection - HT29

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Cultures supplied by Culture Collections are for research purposes only. Enquiries regarding the commercial use of a cell line are referred to the depositor of the cell line. Some cell lines have additional special release conditions such as the requirement for a material transfer agreement to be completed by the potential recipient prior to the supply of the cell line. Please view the Terms & Conditions of Supply for more information.

Available Formats

Frozen Growing DNA-5µg (100ng/µI) RNA-5µg (100ng/µI) cDNA-20µI

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