

Plasmax™ cell culture medium

Catalogue number: 156371

Sub-type: Cell culture media

Images:

Contributor

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Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Plasmax™ cell culture medium

Alternate name: Plasmax™

Class:

Conjugate:

Description: Plasmax™ is a new physiologically relevant cell culture medium which mimics the metabolic and physiological profile of human plasma. It is designed to improve the metabolic fidelity and biological relevance of in vitro cancer models by recapitulating the natural in vivo metabolic environment in an in vitro setting. Researchers have found that conventional growth-focused media with non-physiological concentrations of nutrients and metabolites can skew the metabolic profile of cancer cells. Plasmax™ is optimised from over 80 components, including amino acids and derivatives, inorganic salts, trace elements, and vitamins, of which over 50 are at levels found in human plasma. Plasmax™ is also the only ready-to-use cell culture media containing growth-enhancing trace elements including vanadium, zinc, manganese, copper and selenium. Plasmax™ can be used by cancer researchers interested in cancer cell biology. It has been successfully validated across a broad range of cells - both primary and established cell lines from different tissues, species and in various experimental conditions.

Purpose: Physiologically relevant cell culture medium which mimics the metabolic and physiological profile of human plasma

Parental cell:

Organism:

Tissue:

Model:

Gender:

Isotype:

Reactivity:

Selectivity:

Host:

Immunogen:

Immunogen UNIPROT ID:

Sequence:

Growth properties:

Production details:

Formulation: Complete and ready-to-use cell culture medium. For the media formulation, please, see Documentation

Recommended controls:

Bacterial resistance:

Selectable markers:

Additional notes:

Target details

Target:

Target alternate names:

Target background:

Molecular weight:

Ic50:

Applications

Application: Cell culture; Cell growth and viability

Application notes: Have a question about Plasmax™? See some frequently asked questions in our Plasmax FAQs in the FAQ section of the website. Please see the Plasmax™ Material Safety Data Sheet (MSDS) in the documentation section below.

Handling

Format: Liquid

Concentration:

Passage number:

Growth medium:

Temperature:

Atmosphere:

Volume: 500 ml

Storage medium:

Storage buffer:

Storage conditions: Store at 4°C. Stable until expiry date on label

Shipping conditions:

Ambient

Related tools

Related tools:

References

References: Bonner et al. 1975. Eur J Appl Physiol Occup Physiol. 34(4):227-32. PMID: 234. Lahtinen et. al. 2023. Cncer Cell. 41(6):1103-1117.e12. PMID: 37207655; Avellino et al. 2023. American Journal of Physiology-Cell Physiology. PMID: 36878843; Bagshaw et. al. 2022. Mitochondrial Intoxication, 723-744. DOI: <https://doi.org/10.1016/B978-0-323-88462-4.00008-0>; Gassl et al. Cancers (Basel) 2022 Nov 16,14(22):5617. PMID: 36428711; Wang et al. Biomolecules 2022 Oct 27,12(11):1575. PMID: 36358924; Villar et al. 2022. Nat Chem Biol. PMID: 36280791; Gardner et al. 2022. Am J Physiol Cell Physiol 323(3):C823-C834. PMID: 35876286; Golikov et al. 2022. Mol Biol (Mosk) 56(5):687-696. PMID: 36165010; Taurino et al. 2022. Mol Metab. 101532 PMID: 35752287; Wang et al. 2022. Biomolecules. 12(6):743. PMID: 35740868; Bagshaw et al. 2021. Biomaterials and Biosystems.4 (100027): 2666-5344. PMID: 36824572; Golikov et al. 2022. Antioxidants 2022, 11, 97. PMID: 35052601; Kalimuthu et al. 2021. J Cell Biochem. PMID: 34935169; Hennequart et al. 2021. Nature Communications. 12: 6176. PMID: 34702840; Chiu et al. 2021. American Society of Hematology. Blood Advances. PMID: 34614505; Cox et al. 2020. Journal of Data and Information Science. 5(3): 161-177. DOI: <https://doi.org/10.2478/jdis-2020-0016>; Moradi et al. 2021. Biomolecules. 11(8): 1177. PMID: 34439843; Barekatain et al. 2021. Nature. 12: 4228. PMID: 34244484; Moradi et al. 2021. American Journal of Physiology. Cell Physiology. 321 (1): C72-C81; Khadka et al. 2021. Cancer & Metabolism. 9:27. PMID: 34172075; Abbas et al. 2021. Comp Biochem Physiol B Biochem Mol Biol. 254:110570. PMID: 33516822; Ackermann et al. 2019. Trends Cancer. 5(6):329-332. PMID: 31208694; Vande Voorde et al. 2019. Sci Adv. 5(1):eaau7314. PMID: 30613774