Human Plasma-Like Medium

Create physiologically relevant cell culture models

Gibco™ Human Plasma-Like Medium (HPLM) is a new formulation designed to resemble the natural cellular environment found in the body, mimicking the metabolic profile of human plasma.

Classical basal media

Widely used classical synthetic cell culture media, including MEM, DMEM, RPMI 1640, and DMEM/F-12, contain glucose, amino acids, vitamins, and salts at concentrations that in large part do not reflect those found in human plasma. These media also lack additional plasma components needed to mimic the metabolic profile of human plasma. Results obtained using media with more physiological relevance can help researchers improve their understanding of cancer and other diseases.

The HPLM difference

HPLM contains more than 60 polar metabolites such as amino acids, nucleic acids, sugars, and small organic acids at concentrations found in human plasma. The salt concentrations in HPLM also mimic those found in human plasma. In resembling the natural cellular environment found in the body, HPLM enables the use of more physiologically relevant cell media in research applications.

When supplemented with fetal bovine serum (FBS), HPLM is capable of supporting cell growth and viability that are comparable to that of conventional basal media formulations supplemented with FBS. For most cell lines, adaptation is not required to transition from a conventional medium to HPLM.

- **Physiologically relevant**—formulated with over 60 polar metabolites and salts to resemble the natural cellular environment found in the body
- **Peer-reviewed**—extensive research publications using the HPLM formulation
- **Easy to use**—direct replacement for your current media when supplemented with FBS

Product	Quantity	Cat. No.
Human Plasma-Like Medium	500 mL	A48991-01
	10 x 500 mL	A48991-02

Find out more at **thermofisher.com/gibcohplm**

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