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Product Data Sheet

CAMELLIA

Culture medium for MDCK suspension cells.

Serum free, animal component free.
For maximal virus production.

Contains recombinant proteins.

BENEFITS

CAMELLIA maximizes virus production of MDCK suspension cells.

CAMELLIA requires adaptation from other serum-containing media.

CAMELLIA offers
Simplicity: Ideal from bench to manufacturing scale.
Serum-free and animal component free: Reduces the risk for animal derived contaminants.
Fully defined: It doesn't contain hydrolysates, thus process variability is reduced.
Antibiotic-free: No risk of antibiotic traces, hidden contamination and endotoxins.

SPECIFICATION

Regulatory	Free of serum, animal component, hydrolysate, antibiotic. Contains recombinant proteins. w/ phenol red w/ Glutamax
Available Form	Liquid
Cell Line	MDCK suspension cells
Storage Cond.	2-8 °C, protect from light
Application	Research and manufacturing

APPLICATION

Sub-Culturing Procedure

- Dispense medium into shake flask and equilibrate in incubator for 2 hours (37 °C, 7% CO2).
- Inoculate medium with $3x10^5$ viable cells/mL and subculture every 4^{th} day for best performance.
- After adaptation to serum-free conditions, maintain cells in CAMELLIA at least 3 passages.
- Viable cell concentration shall reach at least $15x10^5$/mL before cell split.

Culture Conditions

Culture vessel: shake flask.

- 250 mL total volume, 50 mL working volume directly after inoculation.
- Inoculation cell concentration, $3x10^5$ viable cells/mL.
- Incubator settings: 36.5 °C, 7% CO_2, humidified, 125 rpm shaking rate.

Culture vessel: bioreactor,

- 5 L total volume, 3 L working volume directly after inoculation.
- Inoculation cell concentration, $3x10^5$ viable cells/mL.
- Bioreactor settings: 36.5 °C, 110 rpm stirring rate.

PERFORMANCE

Stock Culture Data

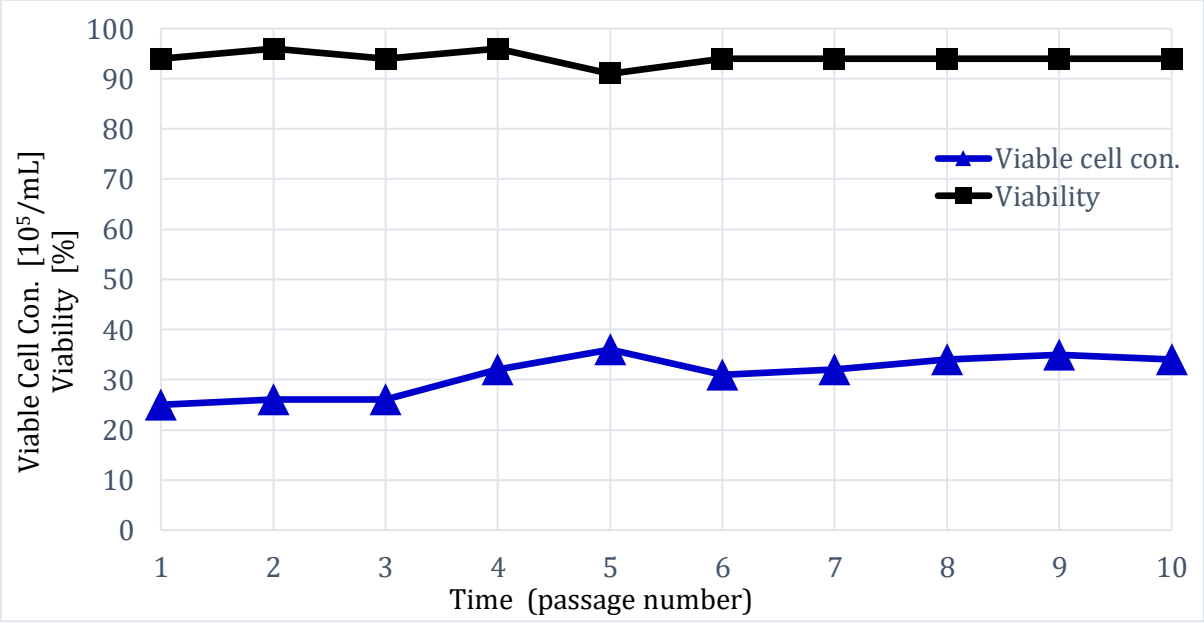

Figure 1: MDCK suspension cells are cultured in stock culture (shake flask) in CAMELLIA medium for 10 passages. Inoculation cell concentration was $3x10^5$/mL. Cells were split every 4^{th} day.

Bioreactor Data

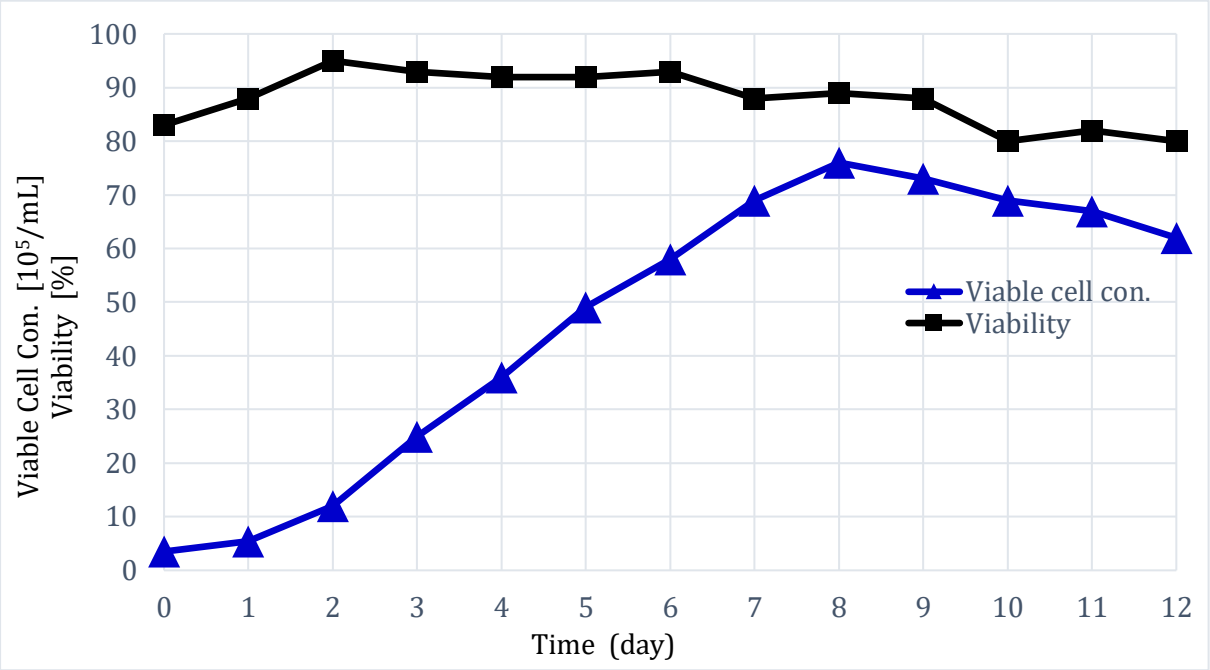

Figure 2: MDCK suspension cells are cultured in bioreactor as batch culture in CAMELLIA medium for 12 days. For this experiment, Sartorius's Biostat B stirred tank bioreactor was used with 5 L total volume and 3 L working volume. Inoculation cell concentration was $3x10^5$/mL.

MEDIA SUPPLY SECURITY

Eminence 埃美益	CAPRICORN SCIENTIFIC
	MADE IN GERMANY

- Our media are manufactured by partners, Eminence Scientific (China) and Capricorn Scientific (Germany), ensuring a consistent global supply from two strategic locations.
- Produced under GMP standards by Eminence Scientific or Capricorn Scientific, our media comply with EMA and FDA regulations.
- Available in liquid form, in GMP or non-GMP grades, tailored to customer specifications.
- GMP batch sizes reach approximately 2,000 L of liquid media.
- Media are supplied directly by Eminence Scientific or Capricorn Scientific.
- Through our extensive distribution network, we deliver to nearly every country worldwide.
- We invite our valued customers to tour our cutting-edge production facilities in Germany or China.

TECHNICAL SUPPORT

Developer	Contact
florabio	info@florabio.com.tr

The developer of the culture media and solutions is Florabio A.S. We welcome our valued customers to contact us about any questions you might have in media characteristics or application of medium in your lab. We would be please to share our experience with you.

ORDERING INFORMATION

Name	Application	Formulation	Volume	Catalogue number
CAMELLIA	Culture medium	Liquid	1 L	CML1-L1
CAMELLIA	Culture medium	Liquid	0.5 L	CML1-L05
MDCK CELL LINE	Virus production			MDCK-C1

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