









Sarvoshadhi Serum-Free Chemically-defined Cell Culture Medium for Vaccines and Biosimilars
Presented by: Nitin

Advantages of Serum

- Highly complex and expensive
- Batch-to-batch variability
- Contains unknown components
- Highly sensitive to contamination

Medium Defined

- Highly defined and reproducible
- Highly sensitive to contamination
- Highly sensitive to contamination

Scalability

- Highly sensitive to contamination
- Highly sensitive to contamination

Applications

- Highly sensitive to contamination
- Highly sensitive to contamination

Key Features

- Highly sensitive to contamination
- Highly sensitive to contamination

Key Features

- Highly sensitive to contamination
- Highly sensitive to contamination

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VC ANALYTICAL

Elemental Analysis Services

- Chemical & Petrochemical
- Food & Agriculture
- Environmental
- Pharmaceutical
- High Purity Trace Elements



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Sarvoshadhi
SERUM-FREE CELL CULTURE

Serum-Free Chemically-defined Cell Culture Medium for Vaccines and Biosimilars

Prasad G. Rote - prasad@sarvoshadhi.com

Highly scalable and reproducible
 - Serum-free medium
 - Defined medium
 - Consistent and stable quality
 - Scalable and reproducible

Production facilities
 - Serum-free medium
 - Defined medium
 - Consistent and stable quality
 - Scalable and reproducible

Supporting Organizations

15/07 20:46

VC ANALYTICAL

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- Chemical & Pharmaceutical
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- Pharmaceutical
- Analytical Services



Startups in a nutshell

The 4 Stages of Hockey Stick Growth

- An early bet on uncertain, emerging/ future opportunities by a committed entrepreneur
- A new way to solve a problem/ innovation
- Systematic **de-risking** where you wait for the late bettors
- Rapid **scaling**
- Heavy risk capital to fuel rapid growth in a timely manner

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Startups in a nutshell

The 4 Stages of Healthy Start Growth



- Identify and solve an emerging/future opportunities by a committed entrepreneur
- Innovate to solve a problem
- Innovation requires de-risking when you wait for the right time
- Invest scaling
- Use risk capital to fuel rapid growth of a thriving enterprise

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Startups in a nutshell

The 4 Stages of the Fly Stick Growth

- do early bet on uncertain, emerging/ future opportunities by a committed entrepreneur
- focus on solving a problem/ innovation
- do not do risk taking while you wait for the time to come
- rapid scaling
- raise risk capital to fuel rapid growth in a timely manner

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VC AND

Thematic Analysis 1

- Chemical & Petrochemical
- Food & Agricultural
- Bio-Pharmaceutical
- High Growth Tech

Thematic Analysis 2

- Entrepreneurship Area
- Intellectual Property
- Management of SMEs
- Financial Services
- Financial Services

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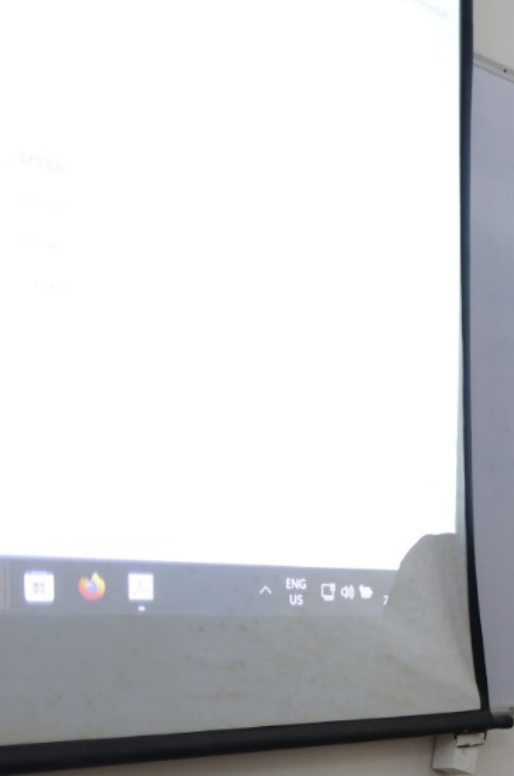
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VC ANALYTIX **VENTURE CAPITAL**

Supply Chain

- NCL
- IIT Madras
- bioac

Analytical Services

Elemental Analysis Services

- Chemical & biochemical
- Drug & ligands
- Environmental
- Food & beverage
- Pharmaceutical
- Water & wastewater

Chromatography Services

- HPLC & GC
- IC & IEC
- SEC & SEC-M
- SFC & SFC-M
- GPC & GPC-M
- ICP-MS
- ICP-OES
- ICP-AES
- ICP-MS/MS
- ICP-MS/MS-MS
- ICP-MS/MS-MS-MS
- ICP-MS/MS-MS-MS-MS



COO Tec

nbt

Services / Areas

Help technical entities that are not technical

Process, supply, mechanical, studies off

Support for engineering, management

Intellects: People, Best, What

100 NCL, India

Phone:























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Sarvoshadhi
Research Pvt. Ltd.

Serum-Free Chemically-defined Cell Culture Medium for Vaccines and Biosimilars

Prasad G. Rote - Founder-Director (prasadrote@sarvoshadhi.com)

IMB/C12 cell line growth (partial passage)

Advantages of Serum

- Highly scalable performance
- Reduced risk of contamination
- Reduced variability
- Regulatory ease

Problems with FCS

- Batch-to-batch variability
- High cost
- High risk of contamination
- High risk of variability

Advantages of Chemically Defined Cell Culture Medium

- Highly scalable performance
- Reduced risk of contamination
- Reduced variability
- Regulatory ease

Mediums defined

- Formulations designed for multiple mammalian cell lines used in vaccine and biopharma
- Mediums and Serum free (SFM) support higher productivity than serum products

Supporting Organizations

- ICMR
- DBT
- DRISAC
- ICMR
- DBT
- DRISAC

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Sarvoshadhi Biosimilars Pvt. Ltd.

Serum-Free Chemically-defined Cell Culture Medium for Vaccines and Biosimilars

Prasad G. Rote - Founder, Director (prasadrote@sarvoshadhi.com)

BATCH TO BATCH GROWTH (cellar passage)

Advantages of Serum

- Highly reliable performance
- Controlled origin - safety concerns and ethical issues
- Compatible with aseptic manufacturing
- Regulatory issues

Production - Serum Free
Eliminates animal cell culture medium, heat and virus

Regulation - Serum Free
Eliminates animal cell culture medium, heat and virus

Mediums Available
Formulations developed for multiple mammalian cell lines used in vaccine and biosimilars. Mediums are tested for critical aspects higher productivity than required products

Supporting Organizations

biac

BIRAC

SECURE USE & PROTECTING THE BATTLE

More than 25

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