

SEPTEMBER 2024

# CHROMATOGRAPHY *Connect*

The Event  
Summarised

For Thought Provoking Leadership in  
Chromatography Purification

5<sup>th</sup> EDITION  
**purify24**  
CHROMATOGRAPHY PURIFICATION CONCLAVE<sup>®</sup> WEST



12<sup>th</sup> June, 2024;  
ITC Maratha, Mumbai



# Diving Deep



**Partners  
in Growth**

Title Sponsors



Gold Sponsors





5<sup>th</sup> EDITION  
**purify24**  
CHROMATOGRAPHY PURIFICATION CONCLAVE  
**WEST**

12<sup>th</sup> June, 2024; ITC Maratha, Mumbai

For Thought Provoking Leadership in  
**Chromatography Purification**



...a landmark  
event

### Silver Sponsors



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Organised by



## CHROMATOGRAPHY Connect

**Project Execution:** Custage Marketing Solutions LLP, 406, Vikas Centre, Dr. C. G. Road, Chembur, Mumbai 400 074, INDIA

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Custage Marketing Solutions LLP is a Mumbai-based boutique communications company that specialises in marketing communications services for the B2B and is adept at creating niche premium communication platforms (vide print, digital and events) that are high in impact and a source of relevant knowledge sharing for the industry.





**260**

Participants



**107**

Companies



**31**

Speakers



**28**

Sponsors

## Numbers Crunched

A symphony of numbers that was music to the ears of all...the delegates savoured the content...the speakers enjoyed the audience's attention...the sponsors lapped up the opportunities and the exhibit zone allowed the showcase of the latest capabilities!

It was all corners covered at PURIFY'24-West!



**29**

Display  
Zones



**7**

Countries



**11**

States



**26**

Cities



## In Dialogue



Dear Valued Chromatographers,

As we wrap up the 5<sup>th</sup> Edition of PURIFY Conclaves, I am filled with a deep sense of gratitude and pride. The recent PURIFY'24 West, hosted on 12<sup>th</sup> June, 2024 at the distinguished ITC Maratha in Mumbai, marked a milestone in our journey. Gathering 260 participants from 107 companies across 11 states and 7 countries, this edition showcased the growing importance and reach of chromatography purification within our community.

I want to extend my sincere thanks to all the delegates, speakers and sponsors who brought their expertise and energy to this event. It is your involvement that transforms PURIFY from a mere gathering into a dynamic exchange of ideas and innovations. Your contributions ensure that this platform not only remains relevant, but also continues to lead the conversation in our industry. The academicians at PURIFY'24 West added an unprecedented dimension as they continue to be the guiding light helping us maximise the opportunities coming our way!

India's pharmaceutical and biopharmaceutical industries are advancing at a remarkable pace, and it is inspiring to witness PURIFY, a platform we built together, gaining international traction. The diverse voices and groundbreaking discussions we shared in this edition underscore the critical role that chromatography purification will play in shaping the future of these sectors.

We have received invaluable feedback from PURIFY'24 West, and we are committed to using it to enhance your experience in future editions. Our aim is to keep evolving, ensuring that each conclave is more insightful and impactful than the last.

As we look forward, I am excited to announce that our next gathering will be on 17<sup>th</sup> December, 2024 at ITC Kohenur in Hyderabad, India. We invite you to join us as we once again come together to explore new frontiers in chromatography purification. Your partnership is invaluable to us, and we are eager to continue this journey with you.

Thank you for your trust and support. We look forward to welcoming you to PURIFY'24!

Warm Regards,

**Manish Chawla**  
Managing Partner,  
Custage Marketing Solutions LLP





**Katkam Srinivas**

Executive Vice President,  
Head of Global Sales &  
Marketing - API Business,  
MSN Laboratories Pvt. Ltd.,  
Hyderabad



**Muralidharan  
Chandrakesan**

Vice President,  
Auropeptide Ltd.,  
Hyderabad



**M. Damodharan**

Chief Quality Officer,  
Global Quality & Regulatory  
Affairs, Sai Life Sciences Ltd.,  
Hyderabad



**Rajiv Janjikhel**

Executive Director,  
Alliance Management  
AbbVie, New Jersey

## Acclaimed **Advisory Board**

The core competency of the esteemed advisory board ensured the most relevant content that benefitted attendees. Their deliberations have constantly served as a guiding light to build an event that is today benchmarked as the highest impact conclave witnessed by this industry.



**Somesh Sharma**

Executive Vice President,  
Discovery Services,  
Aragen Life Sciences,  
Hyderabad



**Y. S. Lakshmi  
Narasimham**

Sr. General Manager -  
Analytical, Novel Drug  
Discovery and Development,  
Lupin Ltd. (Research Park),  
Pune



**Manish Chawla**

Managing Partner,  
Custage Marketing  
Solutions LLP,  
Mumbai



# Agilebio Technology

## Market Leader in Offering End-to-End Solutions for Separation and Purification

Agilebio Technology is headquartered in Suzhou Industrial Park and owns two brands, Agilebio and Biosepur. It is committed to developing new chromatography techniques for the upstream purification of biomanufacturing and delivering upgraded solutions for chromatography separation and purification with high precision, high efficiency and lower cost. Relying on its innovative separation materials and precision & automation equipment, Agilebio Technology is supporting biomanufacturing with its comprehensive solutions including intelligent preparation chromatography instruments and industrial equipment, high-performance and low-cost packing materials and new purification techniques with higher efficiency and lower cost.

In terms of nucleic acid drugs, Agilebio Technology uses its high-efficiency silica gel packing materials for effective separation and purification of raw materials and intermediates such as phosphoramidite monomers, nucleosides, liposomes, dNTP, Cap. Together with its automated fluid control technique, Agilebio Technology provides customers with integrated services from bench-scale testing to scale-up production, from separation materials to instruments. Meanwhile, process development and purification services are also available in Agilebio Technology with strict and complete management procedures, especially the NPLC/RPLS purification process of phosphoramidite, which ensures high purity and recovery.

### Key Technology Platforms

#### 01 High Purity Spherical Silica For Chromatography

Including Optimizing And Manufacturing Bare Silica Of All Three Major Types And Customized Bonding; Developed An Innovative Bonding Technology---asymmetrical Bonding.  
(4 Patents)

#### 02 Fully Automated And Precise Columns' Packing

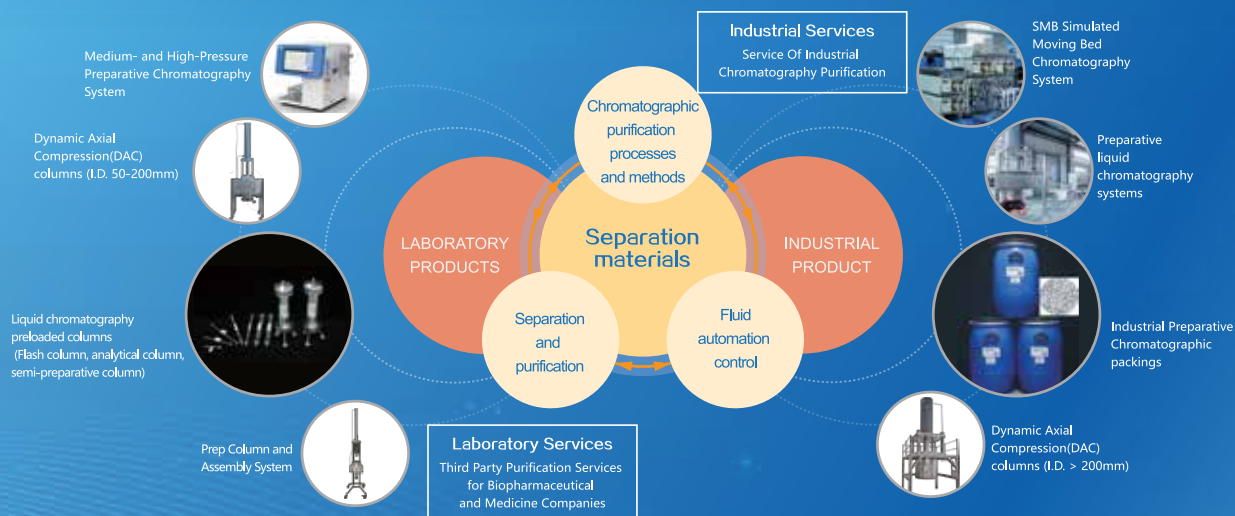
(5 patents)

#### 03 Automation of chromatographic purification

(21 patents)

#### 04 Innovative And Unique Magnetic Solid Phase Extraction

(12 patents)



Please contact: Hemant Kohli

Email: [hemantkohli@agilebio.com.cn](mailto:hemantkohli@agilebio.com.cn)





**Labmate (Asia) Pvt. Ltd.**  
*Serving Science*

**Astrea**  
Bioseparations

# Revolution in Column Bioseparations



**Evolve D Columns**



**Pre-Packed Columns**



**AstreAdept  
chromatography capsules**

## Product Portfolio

- Resins - Purification
- Resins - Contaminant removal
- Columns and Libraries
- Cell & Gene Therapy



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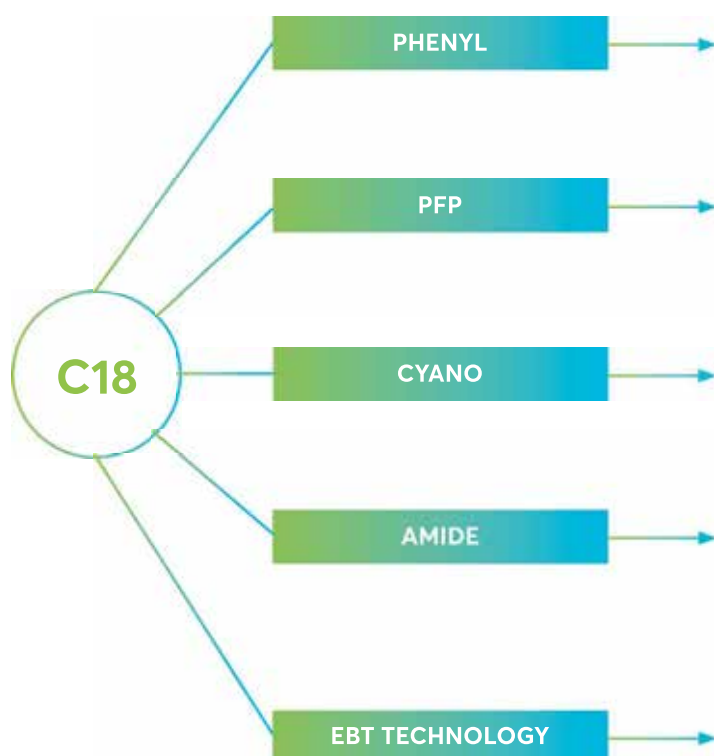
[sales@labmateasia.com](mailto:sales@labmateasia.com)

[www.labmateasia.com](http://www.labmateasia.com)

# Avantor® ACE® Novel Stationary Phases

## Analytical Method Development to Preparative Purification

- Ultra-pure, base-deactivated silica
- 5 and 10 µm particle sizes available
- High surface area and carbon loads for maximum sample capacity and loadability
- Fully wettable\* i.e., 100% aqueous eluent compatible phases
- High sample recovery
- Excellent reproducibility and long-term performance
- Bulk media available for column packing



### ACE® C18-AR

For separation of aromatic analytes with electron withdrawing groups where conventional phenyl and C18 phase fails to provide adequate separation.

### ACE® C18-PFP

For separation of aromatic analytes with electron donating groups, positional isomers where conventional phenyl and C18 phase fails to provide adequate separation.

### ACE® CN-ES

For separation of polar & midpolar analytes that are capable to form dipole-dipole interactions and are unable to separate using conventional C18 and cyano phase columns.

### ACE® C18-AMIDE

For separation of analytes that are capable to form hydrogen bonding interaction and are unable separate using conventional C18 and cyano phase column. Especially used for separation and purification of small peptides.

### ACE® SUPERC18

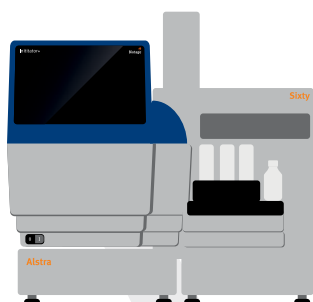
For separation of complex mixture where working in higher pH conditions is required. (pH range: 1.5 to 11.5).



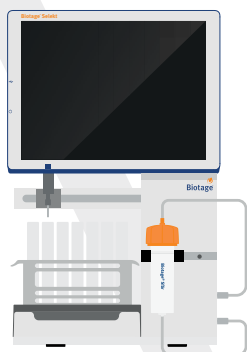
For more details, you can reach us at  
[chromatography.india@avantorsciences.com](mailto:chromatography.india@avantorsciences.com)



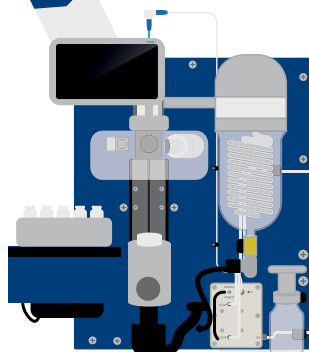
# Peptide Synthesis **Workflow** Solutions



» **Synthesis**  
**Biotage<sup>®</sup> Initiator+ Alstra<sup>™</sup>**



» **Purification**  
**Biotage<sup>®</sup> Selekt**



» **Evaporation**  
**Biotage<sup>®</sup> V-10 Touch**



» **Pure Product**

# “Passion for Excellence”



## GoodPrep® Preparative & Production HPLC Systems

- \* GoodPak® DAC / SAC Columns For Preparative Chromatography
- \* Mobile Phase Pumps ; Sample Loading Pumps
- \* Gradient Mixers
- \* UV Detectors
- \* Fraction Collectors
- \* Temperature Control
- \* GoodPrep Pilot scale HPLC Systems
- \* PLC Industrial Systems
- \* Full compliance with FDA 21 CFR Part 11



## CHEMSIL HPLC COLUMNS - Make: M/s CHEMINDIA

- \* Analytical, Semi-Preparative & Preparative columns,
- \* Stationary Phase: ODS/ BDS C-18, Octyl C8, Butyl C4, Silica, Amino, Phenyl, Cyano, etc.,
- \* Particle Size: 3, 5, 7, 10, 15, 20 Micron
- \* Pore Size : 60, 100, 120, 300 Angstroms
- \* Empty Hardware, Packing Materials
- \* Re-Packing Services of Preparative HPLC Columns
- \* Re-Pack with CHEMSIL® / Customer's silica gels .



Mightysil HPLC Columns  
Make: M/s KANTO Chemicals, Japan.

## CHEMINDIA “InstaMix” Continuous Flow Reactors

Model:

CFR for Continuous Flow Reactions



Principle of Mixing  
No. of Reactants  
Phases

: Split And Recombine (SAR) Principle  
: 2 or 3 Reactants  
: Liquid -- Liquid; Liquid – Gas;  
Liquid-- Slurry

Material Of Construction  
Maximum Pressure  
Internal Volume  
Flow rate  
Production Capacity  
Temperature Range  
Heating / Cooling method

: SS316L, Titanium, Inconel  
: 69 Mpa/690bar /10,000 psi  
: 3ml ~ 100ml  
: 1ml/ min ~ 3 Liters/min  
: 5 t /year ~ 1500 t/ year  
: - 200 ºC to 400ºC  
: Jacketed

CHEMINDIA

## CHEMINDIA - High Pressure Liquid Pumps for Continuous Flow Reactor

In order to address the widest variety of applications, various pump head materials are available like SS316L, Hastelloy – C. Ceramic ball valves to work with all kinds of Acids, Bases and solvents. Stepper motor provides very accurate and precise flow outputs. Digital display of flow & pressure. Pressure control and Flow increments through key board.

## Specifications for Hastelloy – C & SS316L Pumps:



Flow	Maximum Pressure	Flow Accuracy %	SS316L Pump	Hastelloy Pump
100ml/min	20 MPA (2900 Psi)	±0.5%	✓	✓
200ml/min	15 MPA (2175 Psi)	±0.5%	✓	✓
300ml/min	15 MPA (2175 Psi)	±0.5%	✓	✓
600ml/min	15 MPA (2175 Psi)	±0.5%	✓	✓
1000ml/min	10 MPA (1450 Psi)	±0.5%	✓	✓
2000ml/min	10 MPA (1450 Psi)	±0.5%	✓	-N/A-
3000ml/min	10 MPA (1450 Psi)	±0.5%	✓	-N/A-



CHEMINDIA

CHEMINDIA HOUSE, PLOT NO17, ST.NO 1, NMDC COLONY, EAST ANANDBAGH, MALKAJGIRI, HYDERABAD-500047.

Tel. No : 040-2724 5011 Fax No: 040-2724 4169, E-mail: kchemindia@hotmail.com, sales@chemindia.in

www.chemindia.in

## Chiral Chromatography

### Immobilized type

CHIRALPAK® IA / IA-3 / IA-U  
CHIRALPAK® IB / IB-3 / IB-U  
CHIRALPAK® IB N-5 / IB N-3  
CHIRALPAK® IC / IC-3 / IC-U  
CHIRALPAK® ID / ID-3 / ID-U  
CHIRALPAK® IE / IE-3  
CHIRALPAK® IF / IF-3  
CHIRALPAK® IG / IG-3 / IG-U  
CHIRALPAK® IH / IH-3 / IH-U  
CHIRALPAK® IJ / IJ-3  
CHIRALPAK® IK / IK-3  
CHIRALPAK® IM / IM-3  
CHIRALPAK® IN / IN-3 <sup>New</sup>

### Protein Type

CHIRALPAK® AGP  
CHIRALPAK® CBH  
CHIRALPAK® HSA

### Coated Type

CHIRALPAK® AD/AD-H/AD-3 AD-R/AD-RH/AD-3R  
CHIRALPAK® AS/AS-H/AS-3 AS-R/AS-RH/AS-3R  
CHIRALPAK® AY-H/AY-3 AY-R/AY-RH/AY-3R  
CHIRALPAK® AZ-H/AZ-3 AZ-R/AZ-RH/AZ-3R  
CHIRALCEL® OD/OD-H/OD-3 OD-R/OD-RH/OD-3R  
CHIRALCEL® OJ/OJ-H/OJ-3 OJ-RH/OJ-3R  
CHIRALCEL® OX-H/OX-3 OX-RH/OX-3R  
CHIRALCEL® OZ-H/OZ-3 OZ-RH/OZ-3R

### Speciality Columns

#### Crown ether type

CROWNPAK® CR-I(+) / CROWNPAK® CR(+)  
CROWNPAK® CR-I(-) / CROWNPAK® CR(-)

#### Zwitterionic type

CHIRALPAK® ZWIX(+)  
CHIRALPAK® ZWIX(-)

#### Anion-exchange type

CHIRALPAK® QN-AX  
CHIRALPAK® QD-AX

## Pharma Services

### GMP Analytical Services

Method Development  
and Method Validation  
Services

Extractable and Leachable  
Studies

IVBE Studies

Peptide Analytics

Biopharma Services

### Purification Services

Chiral Separation Services

Peptide Purification  
Services

Purification under GMP  
environment

Impurity Isolation  
Services

### Synthesis Services

Peptide Synthesis

Nucleotide Synthesis

Labelled Synthesis

Impurity Synthesis

## Pharma Standards

Impurity Standards

Peptide Standards

Stable Isotope Labelled  
Standards

NDSRIs

Stable isotope labelled  
NDSRIs



# Purification & Discovery Solution

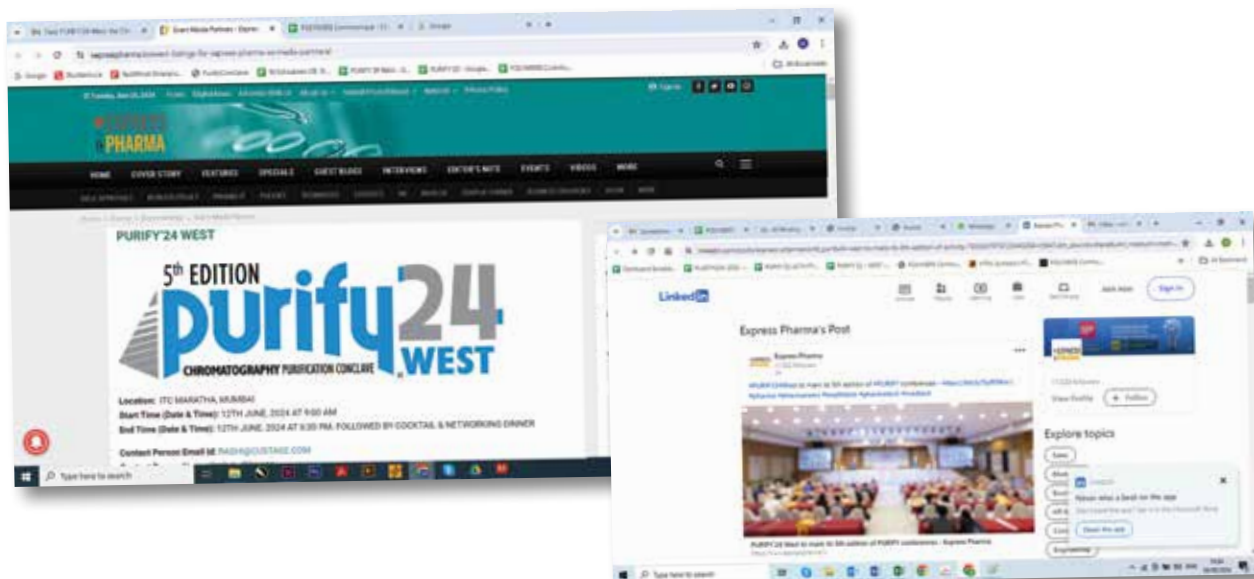


- | Excellent Availability of all Phases in **Elegasep** Flash Columns
- | High Quality and Consistent Performance Product Range
- | **BRIX & META** Purification System available from 0 - 5800 Psi
- | **META** Purification System having low-rate from 1 - 3000 ml/min
- | **ELF** is India's most economical Purification System with lifetime LED detection



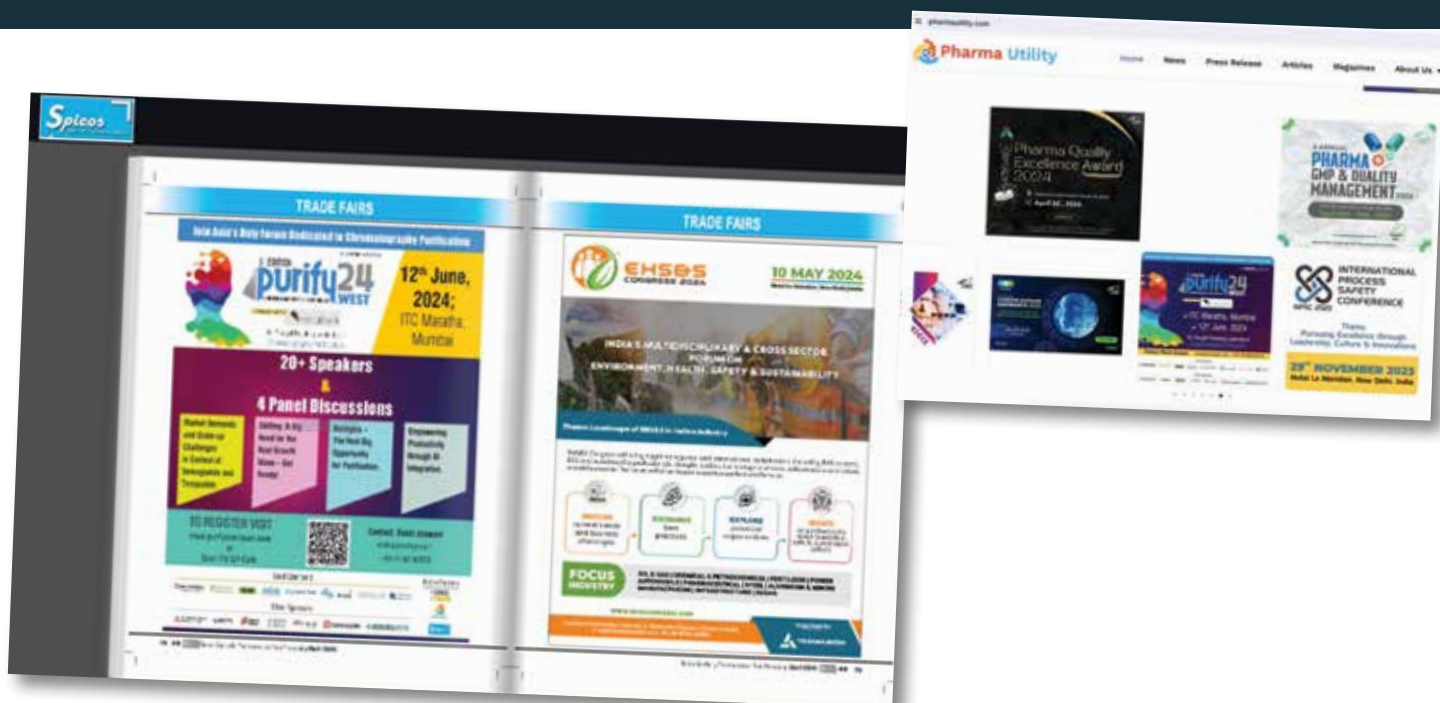
# VIVID CAMPAIGNS AND PROGRAMME

13



## Vivid Campaigns

As Rome wasn't built in a day, so was the success of PURIFY'24-WEST. It's been 110+ campaigns that were thoughtfully conceived and diligently implemented. A myriad of platforms were used to put the best foot forward to approach all stakeholders in the business of 'Chromatography Purification'. The result was evident – the big success of PURIFY'24-WEST!











For Thought Provoking Leadership in  
Chromatography Purification

**1<sup>ST</sup> EDITION purify24 WEST**  
For Thought Provoking Leadership in Chromatography Purification  
12<sup>th</sup> June, 2024; ITC Maratha, Mumbai

**EVERY DELEGATE GETS AN ASSURED GIFT...**  
A pen stand made of soapstone with inlay; soapstone is believed to promote rational and creative thinking, while having an effect of positive and calming energy.

TO REGISTER SCAN THE QR CODE

**purify24 WEST**  
For Thought Provoking Leadership in Chromatography Purification  
12<sup>th</sup> June, 2024; ITC Maratha, Mumbai

TO REGISTER SCAN THE QR CODE

**Exhibit Zone**

TABLE PARTNERS

5<sup>TH</sup> YEAR OFF

Logos of sponsors: Apollo Bio, Astrea, Avantor, Biotage, BUCHI, Cytoskeleton, Cytoskeleton, DAIICEL, elSciences, INTECH, IPSUM, Kromasil, Millennial Scientific, Nanghavi, PGC, Phenomenex, SANTECH, SORACHEM, ULTRA, welch, YMC.

Contact: Rashi Jeswani, rashi@postage.com, +91-91366 00573

For more details & registration, visit [www.purifyconclave.com](http://www.purifyconclave.com)

**Quick READ!** **purify24**  
For Thought Provoking Leadership in Chromatography Purification

**INDUSTRY OPINED ABOUT THE PURIFY23**

3 Best Other Innovations and selection of content and speakers was the best part of the event.

Very good networking and sharing of knowledge about purification was the highlight of the event.

An agreement to excellent thought leadership was given to keep it aligned.

Archana S. Senior Manager, Biotage

Rashmi Takare, Consultant, Senior Manager, elSciences

Anubhav Sharma, Assistant Vice President, Biotage

**purify24 WEST**  
12<sup>th</sup> June, 2024, ITC Maratha, Mumbai

TO REGISTER SCAN THE QR CODE

Contact: Rashi, rashi@postage.com, +91-91366 00573

FOR MORE DETAILS VISIT: [www.purifyconclave.com](http://www.purifyconclave.com)

**1<sup>ST</sup> EDITION purify24 WEST**  
For Thought Provoking Leadership in Chromatography Purification  
12<sup>th</sup> June, 2024; ITC Maratha, Mumbai  
9:00 am - 6:15 pm followed by Cocktails & Networking Dinner

**Advisory Board**  
Four insightful panel discussions featuring eminent industry experts. The panelists' participation in these discussions and seminars from the chromatography industry, bringing their vast experience and knowledge to the forefront. They brought with them extensive understanding of the challenges and opportunities that lie ahead in chromatography purification.

**Panel Discussions**  
The moderator questions will take the panel to another level. Their answers will be a goldmine for the audience. A moderator will lead the discussion, while the panelists will provide their insights and experiences. The moderator will also take the audience to another level. Their answers will be a goldmine for the audience. A moderator will lead the discussion, while the panelists will provide their insights and experiences.

**30+ Speakers**  
Each day of the event will be an unprecedented commitment and passion to enhance the level of performance of every attendee. They stand by the industry when it needs them the most. These distinguished speakers will provide an engaging and enlightening evening of their career with an ability to share their expertise.

**20+ Sponsors**  
They are here to showcase what they have, their technology, that is what we need. Most of the time, we are not aware of the products and services that are available in the market. They are here to showcase what they have, their technology, that is what we need. Most of the time, we are not aware of the products and services that are available in the market.

**30+ Table Partners**  
It's not about just having the table, it's about about attending the PURIFY24 West. It's about being at the event and having the table. It's not about just having the table, it's about about attending the PURIFY24 West. It's about being at the event and having the table.

**Beyond Business**  
PURIFY24 West goes beyond the conventional for all the attendees. Activities that take you with Cocktails and Dinner.

**Cocktails & Networking Dinner**

Contact: Rashi Jeswani, rashi@postage.com, +91-91366 00573

For more details & registration, visit [www.purifyconclave.com](http://www.purifyconclave.com)

**1<sup>ST</sup> EDITION purify24 WEST**  
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**Amplify your brand at PURIFY**

**Book Your Table Space Today**

**Rs. 85,000 + GST**

**Big Complimentary Add-ons**

2 Delegates Registration for the Conference and Business Networking Cocktails and Dinner

1 VIP Customer Invite

1 Full Page Colour Ad in the Post Event Publication

**Last 3 Tables**

**Gold Sponsors**  
Logos of sponsors: SHIMADZU, BUCHI, DAIICEL, Avantor, Biotage, PGC, elSciences, Phenomenex, Millennial Scientific, SORACHEM, ULTRA, welch, Kromasil, IPSUM, SANTECH, Nanghavi.

**Silver Sponsors**  
Logos of sponsors: SHIMADZU, BUCHI, DAIICEL, Avantor, Biotage, PGC, elSciences, Phenomenex, Millennial Scientific, SORACHEM, ULTRA, welch, Kromasil, IPSUM, SANTECH, Nanghavi.

**Media Partners**  
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Contact: Rashi Jeswani, rashi@postage.com, +91-91366 00573





# Programme

Never before a programme with such diversity of talks, coupled with depth of knowledge. Speakers from PAN India adorned PURIFY'24-WEST.

Timing	Presentation	Speaker
8:00 am - 9:00 am	Registration with Networking Tea / Coffee	
9:00 am - 9:20 am	Inauguration and Welcome Address	<b>Professor M. M. Sharma, Olga Krivosheeva, Kshitij Shah, Srushti Sanghavi - Shah, Advisory Board</b> and <b>Manish Chawla</b>
9:20 am - 9:40 am	Special Address by Guest of Honour	<b>Professor M. M. Sharma</b> , Emeritus Professor of Eminence, Institute of Chemical Technology, Mumbai
9:40 am - 10:00 am	Downstream Peptide Purification Using New Generation of Silica	<b>Olga Krivosheeva</b> , Application Project Manager, Nanologica AB, Sweden
10:00 am - 10:20 am	Commercial Production of High Purity Docosahexaenoic acid (DHA-EE) and Eicosapentaenoic acid (EPA-EE) using Reverse Phase and Normal Phase Simulated Moving Bed Chromatography	<b>Anil Oroskar</b> , Ph.D., CTO and Founder, Orochem Technologies Inc., USA
10:20 am - 10:50 am	Panel Discussion - Skilling: A Big Need for the Next Growth Wave – Get Ready! <b>Prof. Aniruddha B. Pandit</b> , Vice Chancellor, Institute of Chemical Technology, Mumbai; <b>Damodharan Satagopan</b> , CEO - API, Sun Pharmaceutical Industries Ltd., Mumbai; <b>E. R. R. Chandrashekar</b> , Ph.D., Head API - R&D, Vice President, Lupin Limited (Research Park), Pune; <b>Swaminathan Sivaram</b> , Professor Emeritus and INSA Emeritus Scientist, Indian Institute of Science Education and Research (IISER), Pune; Moderator: <b>Prof. V. N. Rajasekharan Pillai</b> , Vice Chancellor, Somaiya Vidyavihar University, Mumbai	
10:50 am - 11:00 am	The Guru Moment	
11:00 am - 11:25 am	Networking Tea / Coffee Break	
11:25 am - 11:45 am	Sustainable Separation: Advancing Chromatography for a Greener Future	<b>Manish Thakur</b> , Business Development Manager, Buchi India Pvt. Ltd., Mumbai
11:45 am - 12:05 pm	Rethink Supercritical Fluid Chromatography - The Swiss Knife of Analytics	<b>Navin Devadiga</b> , Asst. Manager - Drug Discovery, Business Development, Shimadzu Analytical (India) Pvt. Ltd., Mumbai
12:05 pm - 12:25 pm	New Horizons of Chiral Separation Techniques: LC, SFC and SMB	<b>M. V. Narendra Kumar Talluri</b> , Director, Daicel Chiral Technologies, Hyderabad
12:25 pm - 12:55 pm	Panel Discussion - Biologics: The Next Big Opportunity for Purification <b>Indraneel Sanyal</b> , Sr. Director, Biologics Development, Aragen Biologics Private Limited, Bengaluru; <b>Madhu Utamsingh</b> , Designated Partner, Hemmo Pharma LLP, Mumbai; <b>Prakash Kotwal</b> , General Manager Manufacturing, Lupin Limited (Biotech Division), Pune; Moderator: <b>Somesh Sharma</b> , Executive Vice President, Discovery Services, Aragen Life Sciences, Hyderabad	
12:55 pm - 1:15 pm	The Circle of Values in Silica based HPLC Purification of Peptides	<b>Fredrik Limé</b> , Ph.D., Technical Development Manager Pharma, Personal Care & Pharma   Performance Formulations, Kromasil, Sweden
1:15 pm - 2:05 pm	Networking Lunch Break	

Timing	Presentation	Speaker
2:05 pm - 2:25 pm	Global Case Studies Highlighting Large Scale Flash Chromatography in Pharma API Manufacturing	<b>Jayati Banerjee</b> , Ph.D., Portfolio Manager, Organic and Peptide Workflow, Biotage India Pvt. Ltd., New Delhi
2:25 pm - 2:45 pm	The Importance of Knowing What is in Your Crude Product and in the Solvents Used for Purification	<b>Jordi Bacardit Cabado</b> , Advisory Board, Sanitech Engineers Pvt. Ltd., Mumbai
2:45 pm - 3:05 pm	Current Challenges and Innovative Solutions in Large Scale Peptide Manufacturing	<b>Venkat Reddy Thangella</b> , Ph.D., Director - Strategic Growth & Scientific Operations, Intech Analytical Instruments, Hyderabad & <b>Sunder Ch.</b> , Director - Engineering & Automation, Intech Analytical Instruments, Hyderabad
3:05 pm - 3:25 pm	Utilising Unique LC Stationary Phases to Accelerate Analytical to Purification Scale-Up Operation	<b>Akshay Holkar</b> , Area Sales Manager - Chromatography, Avantor Performance Materials India Pvt. Ltd., Mumbai
3:25 pm - 3:55 pm	Panel Discussion - Market Demands and Scale-up Challenges in Context of Semaglutide and Tirzepatide <b>Arvind M. Lali</b> , Chief Technical Officer, Vidyan BioCommerce Pvt. Ltd., Mumbai, Retd. Professor of Chemical Engineering and Former Head, DBT-ICT-Centre for Energy Biosciences, ICT, Mumbai; <b>Chetan Doshi</b> , Ph.D., Chief Scientific Officer, R & D, Generic Research, USV Private Limited, Mumbai; <b>Nitin Patil</b> , Ph.D., Head API - Peptides and Downstream Research and Development, Biocon Limited, Bengaluru; Moderator: <b>Muralidharan Chandrakesan</b> , Vice President, Auropeptide Ltd., Hyderabad	
3:55 pm - 4:05 pm	Felicitation	
4:05 pm - 4:30 pm	Networking Tea / Coffee Break	
4:30 pm - 4:50 pm	Carbon Microbead Media for the Purification of Liraglutide and Semaglutide	<b>Balaji Sitharaman</b> , Ph.D., President, Millennial Scientific, New York
4:50 pm - 5:10 pm	Peptide Purification Strategies - Case Study of Glargine	<b>Srushti Sanghavi - Shah</b> , Manager, Peptide Purification, Nanghavi Chromatography Solutions Pvt. Ltd., Mumbai
5:10 pm - 5:30 pm	Optimising Purification Efficiency and Cost - Selecting the Right Media	<b>Darshan Engineer</b> , Sr. Business Development Manager, Phenomenex India Pvt. Ltd., Hyderabad
5:30 pm - 5:50 pm	Credence for Choosing the Right Media for the Right Scale-ups: A Few Case Studies	<b>Hemant Kohli</b> , International Business Cum Technical Director, AgileBio Technologies, China
5:50 pm - 6:20 pm	Panel Discussion - Empowering Productivity through AI Integration <b>Katkam Srinivas</b> , Executive Vice President , Head of Global Sales & Marketing - API Business, MSN Laboratories Pvt. Ltd., Hyderabad; <b>M. Damodharan</b> , Chief Quality Officer, Global Quality & Regulatory Affairs, Sai Life Sciences Ltd., Hyderabad; <b>Somesh Sharma</b> , Executive Vice President, Discovery Services, Aragen Life Sciences, Hyderabad; <b>Swapan Kumar Jana</b> , Director - R&D and Manufacturing Human Vaccine Development, Serum Institute of India Pvt. Ltd., Pune; Moderator: <b>Manish Chawla</b> , Managing Partner, Custage Marketing Solutions LLP, Mumbai	
6:20 pm Onwards	Lucky Draw and Networking Cocktails & Dinner	





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- Tiecoplanin
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- Serratia-Peptidase
- Vancomycin
- 9-AD-4-OH
- Surfactin
- r-DNA (Plasmid)

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- Micafungin
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An aerial photograph of a swimming pool with several swimmers in different lanes. The lane lines are red and white. The water is a clear blue. The swimmers are in various stages of their strokes, creating splashes and ripples in the water. The pool deck is visible at the bottom of the frame.

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## All-Carbon Chromatography Products

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Our entire product line is built with the same **All-Carbon Microbead surface chemistry**, opening new avenues for extraction, separation & purification outside the current state-of-art.

### Applications

- Solid Phase Micro-Extraction
- Solid Phase Extraction
- High Performance Semi-Preparative and Preparative Chromatography

### NanoPak-C Features

- 75, 40, 10, 5, 3, 1.5  $\mu\text{m}$  bead sizes
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- Temperatures to 100°C
- Uniform particle distribution
- Controllable pore size & porosity
- Customizable, Functionalizable
- Fully scalable from analytical to prep

### Advantages of All-Carbon

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Improved Simulated Moving Bed Chromatographic Separator



## MMD-Sep™ Features.

- Comprise of 4 Columns only hence Compact & Cost Effective.
- Higher separation performance compared with conventional SMB chromatographic separator.
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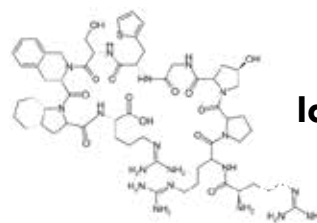


Manufactured by Mitsubishi Chemical

## Mid-size molecule API purification example : ICATIBANT

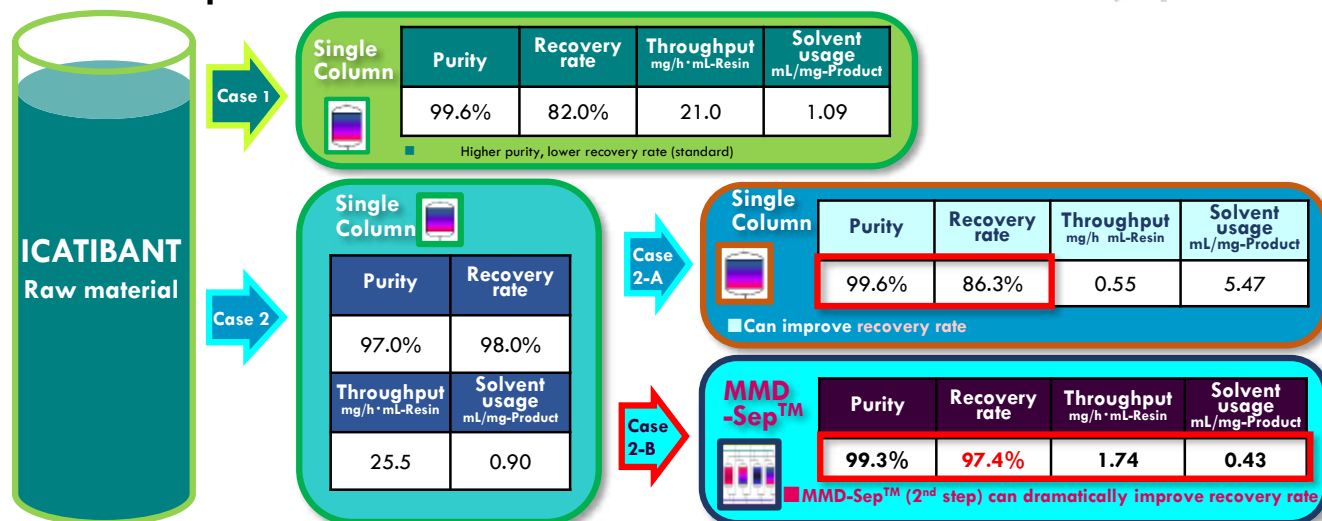
### Icatibant

- Drugs for the treatment of acute attacks of hereditary angioedema
- Molecular weight: 1304.55 g/mol (icativant acetate)
- Drug Price: 307,291 JPY for Philadil subcutaneous injection 30 mg syringe 3 mL (as of July 2023)



Icatibant

## ICATIBANT purification test results



## Estimated production volume

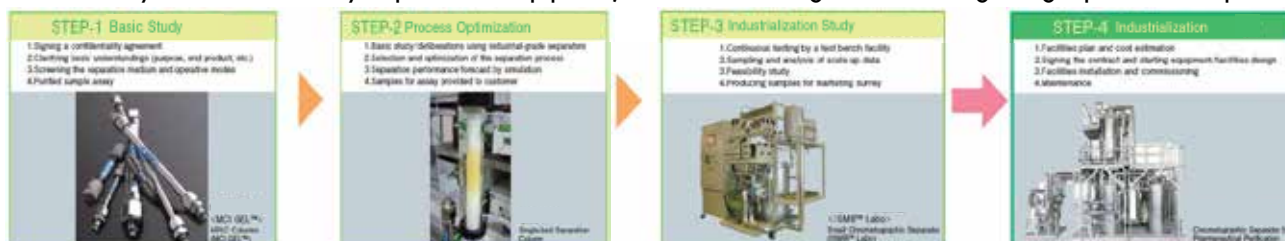
Case 2-B using MMD-Sep™ continuous chromatographic separator



Column Capacity	Throughput g/Day	Production days Day/kg-Product
16.6mL-R 4.6Φ × 250mmh × 4 pcs.	0.69	1,460
78.5mL-R 10.0Φ × 250mmh × 4 pcs.	3.2	309
314mL-R 20.0Φ × 250mmh × 4 pcs.	13.0	78
985mL-R 28.0Φ × 400mmh × 4 pcs.	40.6	25

## Purification Process Development Service of Mitsubishi Chemical Aqua Solutions

From laboratory research to delivery of production equipment, we offer wide range of services regarding separation and purification.



For more information about MMD-Sep™, contact Mitsubishi Chemical India. Tel : +91 9717011694



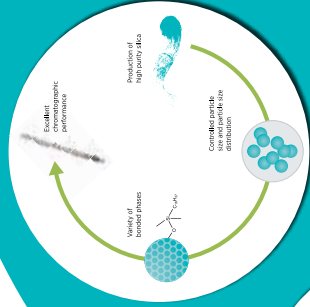
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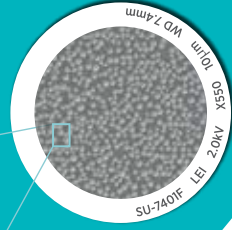
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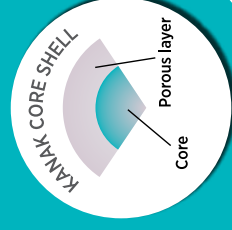
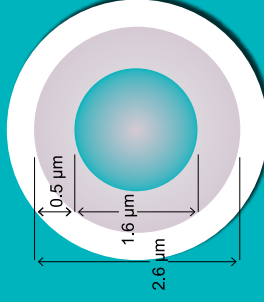
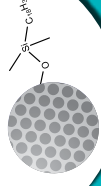
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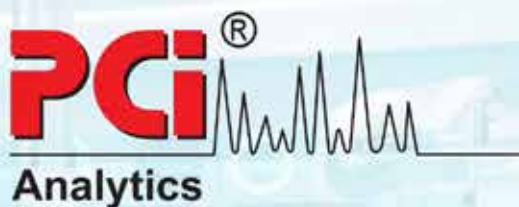
**KEY FEATURES**

- Ligand coverage 3.6 µmol/m
- d90/d10 < 1.5
- N<sub>0.5</sub> (toluene) typically 110 000 plates/m
- USP tailing (toluene) < 1.1
- Reduced plate height (h) ≤ 2.0

Chromatographic  
resin stable between  
pH 1-9 (C18) and pH 1-8  
(C4 and C8)



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# ABSTRACTS

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## IN-SHORTS

27





**Olga Krivosheeva**

Application Project Manager,  
Nanologica AB, Sweden

## Downstream Peptide Purification Using New Generation of Silica

**D**ownstream purification of insulin, insulin analogues, and GLP-1 agonists is a complex procedure consisting of several steps. Among them chromatography is a key technology which allows to achieve the highest purity of the final products even with complex impurity profiles.

The quality of silica used for this step is of fundamental importance for an efficient purification of the peptide, which is dictated by an overall optimized manufacturing process. Nanologica has specially developed a new generation of silica media NLAB Saga® to meet the strict requirements of industrial-scale purification by chromatography. NLAB Saga® has a large available surface area, high ligand density and narrow pore size distribution.

This, combined with controlled mean particle size and particle size distribution, results in silica with a high loading capacity and low back pressure. Due to its exceptional mechanical and chemical stability at both high and low pH, NLAB Saga® is an excellent choice for the industrial scale purification of insulin, GLP-1 analogues, and other peptides. Thus, NLAB Saga® is an efficient product with a long lifetime tailored for large-scale purification processes.

“

Attending PURIFY gives us an opportunity to enhance the knowledge of purifications.

**Abhijeet Ghogare**

Research Incharge - R&D,  
Aarti Industry

”

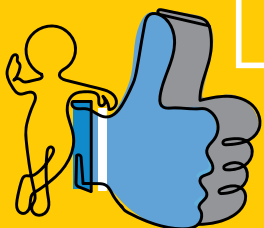
“

Good content of purification techniques and overall a very well organised event.

**Milind Gujrar**

Alkem Laboratories LTD.

”





**Anil Oroskar, Ph.D.,**  
CTO and Founder,  
Orochem Technologies Inc., USA

## **Commercial Production of High Purity Docosahexaenoic acid (DHA-EE) and Eicosapentaenoic acid (EPA-EE) using Reverse Phase and Normal Phase Simulated Moving Bed Chromatography**

Fish oil is a dietary source of omega-3 fatty acids. Our body needs omega-3 fatty acids for many functions, from muscle activity to cell growth. In addition to supplements, EPA and DHA are also active ingredients in prescription drugs: Lovaza (GSK) and Vascepa (Amerin). Orochem Technologies Inc., based in Naperville, Illinois has been a leader in the development and commercialization of large-scale purification of EPA and DHA from various sources of fish oil. This presentation will describe the development of reverse phase SMB process from lab scale to commercial scale for the production of high purity EPA and DHA as active pharma ingredients for formulation of Lovaza and Vascepa. In addition, the presentation will also describe the development of normal phase SMB process from lab scale to commercial scale for the production of blends of EPA and DHA for the supplements market. Interaction of stationary phase properties with mobile phase for an efficient SMB operation will be described.

“

The best part of PURIFY was that speakers have complete knowledge about the selected topics.

**Ramesh Pawar**  
AGM,  
Apicore Pharmaceuticals Pvt. Ltd.

”

“

Gathering of selective quality audience and eminent speakers. I think it is the only platform on separation techniques in India. Thanks, to the Custage team.

**Girija Brahma**  
Head Sales - Chromatography,  
Avantor Performance Materials India  
Private Limited

”



**Manish Thakur**

Business Development Manager,  
Buchi India Pvt. Ltd., Mumbai

## **Sustainable Separation: Advancing Chromatography for a Greener Future**

### **Background:**

During the last years, chemistry was involved in the worldwide effort toward environmental problems leading to the birth of green chemistry. In this context, green analytical tools were developed as modern Supercritical Fluid Chromatography in the field of separative techniques. This chromatographic technique knew resurgence a few years ago, thanks to its high efficiency, fastness, and robustness of new generation equipment. How the technique is different from the LC technique in relevance of column screening. These advantages and its easy hyphenation to a variety of detectors like UV, ELSD & MS fulfills towards better separation and achieving higher throughput not only for chiral application but also for any achiral application.

### **Results:**

SFC finds applications in various fields, including pharmaceuticals, natural products, environmental analysis etc.

### **Conclusion:**

Supercritical Fluid Chromatography is a versatile and innovative separation technique that has gained prominence in the realm of analytical chemistry. Its unique combination of efficiency, environmental sustainability, and compatibility with a wide range of compounds makes it a valuable tool for researchers and analysts across various industries.



**Navin Devadiga**

Asst. Manager - Drug Discovery,  
Business Development,  
Shimadzu Analytical (India) Pvt. Ltd., Mumbai

## Rethink Supercritical Fluid Chromatography - The Swiss Knife of Analytics

SFC has largely been overlooked due to complex method development and a perceived lack of robustness. However, recent advancements in instrumentation have rekindled interest and improved its standing in the scientific community.

SFC method development can be complex due to the interplay between multiple parameters such as pressure, temperature, modifier concentration, and flow rate. Finding the optimal combination of these parameters for effective separation can be time-consuming and requires a deep understanding of the interactions between the supercritical fluid and the analytes.

Shimadzu's Nexera UC allows measurements by liquid chromatography (LC) and SFC on a single system, automating column selection, gradient formation with up to 4 modifiers, and equilibration during column and solvent changes. LabSolutions MD offers excellent ease of use, evaluating multiple analytical conditions in a single operation efficiently. This new generation of systems meets the demand for an efficient and robust SFC by automating these aspects of method development, minimizing human error and maximizing throughput.

“The vendor talks and the product information was the best thing at PURIFY!”

**Rahul Shirke**

Managing Director,  
Chirochem Laboratories

“The panel discussion on ‘Skillings A Big Need for the Next Growth Wave’ was the best thing at PURIFY’24 West, according to me.”

**Sandip Shitole**

Site Quality Head API and Site QC Head API &  
Formulations - Kurkumbh and Satara,  
Cipla Limited





**M. V. Narendra Kumar Talluri**

Director,  
Daicel Chiral Technologies, Hyderabad

## **New Horizons of Chiral Separation Techniques: LC, SFC and SMB**

The art of enantioseparation has seen a most dramatic development and progress over the last three decades, maturing from a specialty field of a few experts to an area of major scientific and economic interest. Chiral Chromatography offers quick way of separating enantiomers from racemic mixtures compared to asymmetric synthesis. Selection of the chiral stationary phase (CSP) is an important consideration in separating enantiomers while using High-Performance Liquid chromatography (HPLC), Supercritical Fluid Chromatography (SFC), and Simulated Moving Bed (SMB) Chromatography.

As more drugs are developed in single-enantiomer form, the determination of enantiomeric purity of starting materials, intermediates, and bulk drugs has become a necessity. HPLC is the most commonly employed technique for enantiomer separation/isolation. It offers high resolution, repeatability, efficiency, and the versatility to perform separations on a wide variety of compounds. LC methods often do not provide sufficient peak resolution to permit reliable measurement of stereochemical composition, particularly when the enantiomeric impurity is present at levels <1.0%. The increased diffusivity of SFC eluents leads to improved peak resolution and sharper peaks, which facilitates the measurement of enantiomeric purity at desired levels. The recent report published by our group on the comparison of LC and SFC for the chiral analysis of antiviral drug candidates. The SFC approach produced methods for all different combination of 3 or more chiral drugs. Ideally, the determination of chiral and achiral purity can be performed concurrently, and increased peak resolution in SFC reduces the likelihood that unexpected impurities will interfere with the analysis.

UHPLC is a specialized subset of HPLC using smaller diameter particles, offering more significant speed and efficiency. With the introduction of columns packed with small diameter (sub-2  $\mu\text{m}$ ) particles. The sub-2  $\mu\text{m}$  immobilized chiral columns to achieve the increased resolution and speed offered by UHPLC. Separation of atropisomers has been successfully achieved on a polysaccharide-based chiral column in RPLC and SFC. The separation on immobilized-type columns in LC/SFC is more efficient. This enabled us to further enhance the atropisomeric separation and develop a more environmentally friendly analytical method. Not only the chiral analysis time was reduced by 8-fold in SFC compared to RP, but also the sensitivity was improved by 2- to 4-fold on sub-2  $\mu\text{m}$  column in 3.0 mm I.D. compared to that on conventional LC chiral columns in 4.6 mm I.D. Therefore, sub-2  $\mu\text{m}$  chiral column technology with LC/SFC is a powerful way to increase laboratory productivity and greenness for chiral analysis. The SMB techniques along with immobilized polysaccharides-based columns shows the highly productive enantiomeric separations and purifications. Chiral separation of samples with poor solubility was well addressed with the help of immobilized based chiral columns.



**Fredrik Limé, Ph.D.,**  
Technical Development Manager Pharma,  
Personal Care & Pharma | Performance  
Formulations, Kromasil, Sweden

## The Circle of Values in Silica based HPLC Purification of Peptides

The talk will present key aspects using state-of-the-art spherical silica for purification of peptide APIs. This includes the benefits of how silica can increase the efficiency, and the importance of high loadability to reduce production cost. Scalability both in terms increasing columns volume and in particle size with the same selectivity. There will also be examples showing the chemical and mechanical stability of the silica by regeneration of the column to increase the column lifetime. In addition to these key aspects in preparative chromatography we will also present the latest in the comprehensive screening of Kromasil phases for purification of GLP-1 agonists. The methodology to systematically remove the impurities from the crude in a 2-step purification.

“

Awesome management with excellent speakers at PURIFY'24 West.

**Dattatray Kavale**  
Senior Executive,  
Daicel Chiral Technologies  
India Pvt. Ltd.

”

“

Networking and line-up of panel members for discussion was the best thing at PURIFY'24 West.

**Bapu A. Gawade**  
Managing Director,  
Cleantech Laboratories LLP

”



**Jayati Banerjee, Ph.D.**

Portfolio Manager, Organic and Peptide Workflow,  
Biotage India Pvt. Ltd., New Delhi

## **Global Case Studies Highlighting Large Scale Flash Chromatography in Pharma API Manufacturing**

**L**arge scale-chromatography plays an important role in the purification of multi kg batches of crude APIs. Very often, existing in-house custom purification processes involve long process time, high solvent consumption, variation in batch to batch reproducibility and decrease in overall mass recovery.

Furthermore, exposure of large amounts of loose Silica during manual packing and disposal may create health hazard and can prove to be a constant environmental threat. In many cases, a commercially available purification system specifically designed for a manufacturing environment can represent an attractive alternative.

One such alternative is Flash 400 large-scale chromatography system that comes with pre-packed cartridges adhering to GMP guidelines.

In this presentation, we will evaluate the adoption of this system for several different purification applications in Pharma API manufacturing.

“

PURIFY'24 West presented  
very good networking  
opportunities.

**Ashok Chaudhari**

Associate Director - Analytical Research,  
Emcure Pharmaceutical Limited

”

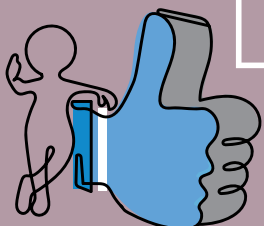
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The best part of the event  
was that genuine issues were  
discussed in the panel discussion.

**Abhijit Desai**

Manager R&D,  
FDC INDIA

”







**Jordi Bacardit Cabado**

Advisory Board,  
Sanitech Engineers Pvt. Ltd., Mumbai

## **The Importance of Knowing What is in Your Crude Product and in the Solvents Used for Purification**

The presentation will discuss in detail the importance of knowing the nature of the impurities present in your crude product before designing the strategy for the purification.

Will discuss impurities related to your substance as well as impurities that are not related to it but can be present because of the solvents/reagents used in the process and during the purification itself.

Will discuss the importance of isolation of impurities in the crude to be able to design which purification methods and which purification media are optimal for their resolution.

“

At PURIFY'24 West I witnessed very good quality presentations and panel discussions.

**Laxman Malge**

Partner,  
Florentis Pharmaceuticals Pvt. Ltd.

”

“

The talk on LC stationary phases to accelerate analytical to purification scale up operation was the best thing at PURIFY'24 West.

**Sunil Mohan Takmoge**

Senior Research Officer,  
Glenmark Life Sciences Limited

”



**Sunder Ch.**

Director - Engineering & Automation,  
Intech Analytical Instruments, Hyderabad



**Venkat Reddy Thangella, Ph.D.,**

Director - Strategic Growth & Scientific Operations,  
Intech Analytical Instruments,  
Hyderabad

## **Current Challenges and Innovative Solutions in Large Scale Peptide Manufacturing**

Peptides are vital in therapeutics due to their roles in numerous biological functions and their potential in treating various diseases. The use of peptides has surged due to advancements in peptide synthesis, improved stability, and targeted delivery methods. Over recent decades, peptide development has evolved with enhanced techniques for Synthesis and Purification. However, post-fraction collection of peptides faces challenges such as high initial costs, the need for specialized training, and potential technical issues. Integrating post-fraction automation into Hanbon-Intech ATEx systems addresses these challenges, offering significant technical and operational benefits. This technology ensures efficient, precise, and reliable fraction collection and management, maintaining sample integrity and quality. Key advantages include high-volume handling with precision, reduced manual errors and contamination, optimal temperature control, and enhanced automation for increased throughput and operational efficiency.

“The best thing for me was  
meeting three of my  
ICT teachers.

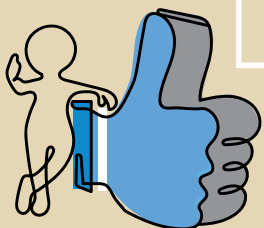
**Nitin S. Patil**

Head API - Peptides and Downstream  
Research and Development,  
Biocon Limited

“The communication and  
organisation was the best thing  
about PURIFY'24 West.

**Sri Krishna Varma Penmetsa**

Senior Manager AR&D,  
Bycus Therapeutics Pvt. Ltd.





**Akshay Holkar**

Area Sales Manager - Chromatography,  
Avantor Performance Materials India Pvt. Ltd., Mumbai

## **Utilising Unique LC Stationary Phases to Accelerate Analytical to Purification Scale-Up Operation**

For any successful purification, optimum separation of the mixture is important. A mixture may contain vast variety of molecules with different physicochemical properties. Separating and purifying such mixture becomes a challenge using conventional stationary phases. Avantor® ACE® unique stationary phases with enhanced selectivity play an important role in achieving such separations. In this session, the speaker will provide insights on selectivity of these unique stationary phases that helps separation and purification with some case studies. Scale up is one of crucial part after achieving successful separation. Analytical methods can be translated to a preparative scale using ACE® translator tool. One of the case studies for this translation will be discussed.

“

To me, the best thing at  
PURIFY'24 West was the talk  
by Dr. Jordi Bacardit.

**Ajit Chundgude**  
Cipla Limited

”

“

This is a good event on purification  
and for bio molecules as well.

**Sanjeev Kudambulkar**  
Area Sales Manager - Biopharma,  
Avantor Performance Materials India Private Limited

”





**Balaji Sitharaman, Ph.D.,**  
President, Millennial Scientific,  
New York

## **Carbon Microbead Media for the Purification of Liraglutide and Semaglutide**

**S**emaglutide and Liraglutide are peptide drugs to treat diabetes and obesity. They are glucagon-like peptide-1 (GLP-1) analogs that mimic GLP-1 receptor agonists, a natural hormone that regulates blood sugar levels. Separation and purification of these peptides are essential to meet drug quality requirements.

This presentation highlights our recent efforts to separate and purify these peptides using our novel graphitic carbon microbead reverse-phase media.

“

Panel discussions are  
the best part of  
this event.

**Adinath Jain**  
GenPep Pharmaceuticals Pvt. Ltd.

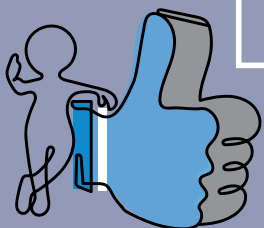
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“

The panel discussion on  
next growth wave was the best  
thing at this PURIFY!

**Satish Yadav**  
Director, Head Quality Compliance Execution and  
Laboratory Excellence,  
Cipla Limited

”



**Srushti Sanghavi - Shah**

Manager, Peptide Purification,  
Nanghavi Chromatography Solutions Pvt. Ltd., Mumbai

## Peptide Purification Strategies - Case Study of Glargine

Reverse Phase chromatography using silica is the final polishing step used in the purification of peptides, which allows to achieve the highest purity of the final product even with the complex impurity profiles. During this final polishing step, there are multiple challenges in attaining the desired purity mainly because the impurities in the peptide purification are very often than not extremely similar in structure to the peptide in focus. Often, only by a single functional group. Thus, this polishing step requires a strategic approach based on the type of challenge faced during the purification. Challenges such as fibrillation of peptides, formation of monodesamino (B-3) insulin, pH of the mobile phase used etc. are often encountered. These can be overcome using a strategic approach targeted at that specific challenge. The method that is developed needs to bear in mind the dilemma of any preparative chromatography scientist to strike a balance among purity, yield and throughput.

Choosing the correct resin has a direct impact on the quality of the end product. NALB Saga has been used in the study of Glargine and the impact it has on its impurity profile is demonstrated in this presentation.

“ The variety & depth of the subject with respect to the overall sessions was very good.

**Vinayak Vele**  
DGM ADL - FDC,  
FDC INDIA

”

“

It was great to experience the knowledge and experience sharing by experts.

**Hanmant Vedpathak**  
Principal Scientist - Sophisticated Instrument Facility,  
Emcure Pharmaceutical Limited

”



**Darshan Engineer**

Sr. Business Development Manager,  
Phenomenex India Pvt. Ltd.,  
Hyderabad

## Optimising Purification Efficiency and Cost - Selecting the Right Media

Since 1982 we have been dedicated to creating and delivering premium quality products for the separation sciences. Our progression from an analytical column supply company to one of the world's highest quality bulk silica and polymer manufacturers gives us a definitive edge. Today we are a global leader and we back up our leading technologies with the highest service level in the industry.

Phenomenex offers bulk chromatographic media and services that reduce your operating costs, shorten your development time, and ensure that you achieve the maximum return on your investment. Phenomenex have redefined the standard for industrial process media and control of all media production. During this presentation, we will review media innovation, global bulk chromatography services to help you reduce costs, our commitment to quality in our media and chromatographic performance, and manufacturing capabilities to meet your process and industrial scale requirements.

“ I had a fantastic experience at the Purify'24 event. The organisation, speakers and overall atmosphere were top-notch. I got valuable insight and meet wonderful people overall good event.

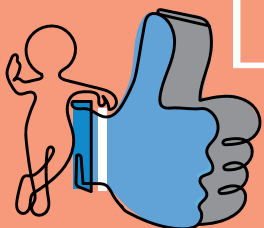
**Lalaso Mahind**

Application Manager - Chromatography,  
Avantor Performance Materials India Private Limited

“ Panel discussion was insightful, catering to need of the industry.

**Girish Sawant**

Principal Scientist R&D,  
Biocon Limited



**Hemant Kohli**

International Business Cum Technical Director,  
AgileBio Technologies, China

## **Credence for Choosing the Right Media for the Right Scale-ups: A Few Case Studies**

Scientific professionals employed in custom synthesis CRO/pharmaceutical industries frequently encounter difficulties in determining which chromatographic media to use for purifications ranging from analytical separations to lab/synthetic purification scale to process scale, due to the various methodologies and media utilised. AGILE BIO, a prominent manufacturer, provides solutions in which the media selection remains consistent across analytical, lab, flash purification, and process scales. Additionally, the company offers preparative/HPLC/DAC columns to facilitate scientific research and streamline processes, particularly for those engaged in analytical or preparative purifications.

Contemporary Difficulties in Purification Separations

1. Chromatographic techniques tailored to particular workflows
2. Method development for separations by preparative chromatography
3. Consider Beyond%B
4. Develop a Scale-Up Strategy in Advance
5. Exercise Extreme Caution When Handling Substantial Volumes of Solvents
6. Prevent Frequent Errors in the Assessment of Acquired Fragments

Practical Instances Images will demonstrate how selecting similar chromatographic media from analytical to process scale can address certain unquestionable challenges that the pharmaceutical industry has been confronted with for centuries. Furthermore, the introduction of AI tools in pipeline predictability will facilitate data validation and process assurance.





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Our goal is to assist you in minimizing your purification process.

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- Method development and optimization
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- Scale-up studies
- Non-GMP purification performed at our facility
- Technical assistance throughout the purification process
- Proof of concept purification method development Tech Notes



[indiainfo@phenomenex.com](mailto:indiainfo@phenomenex.com)



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 **phenomenex**

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& counting

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small & mid  
and big pharma

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top 25<sup>~</sup>**  
large pharmaceutical  
companies work with us<sup>^</sup>

**2845<sup>#</sup>**  
strong talent pool

\* In terms of revenue CAGR as well as EBITDA CAGR from FY22 to FY24

<sup>^</sup> During FY 2024

<sup>~</sup> As per CY 2023 revenue

<sup>#</sup> As of March 2024

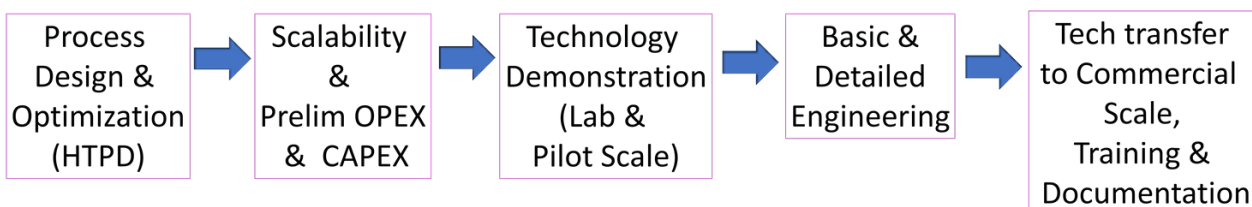


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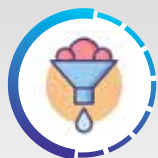
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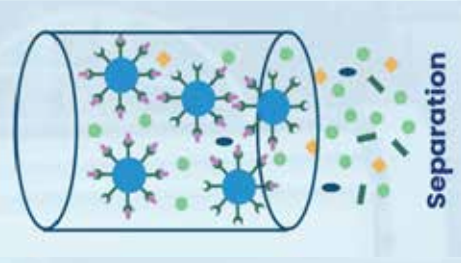
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## ADSORBENTS FOR COLUMN CHROMATOGRAPHY



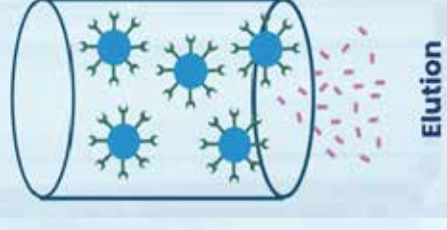
**MIXED COMPOUNDS**



**SILICA GEL OR ALUMINIUM OXIDE**



**OXIDE ACTIVE COMPOUND**



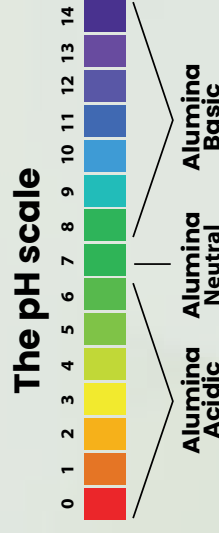
**CHROMATOGRAPHIC ADSORBENTS FOR PURIFICATIONS – EXTRACTION – SEPERATION**

### Silica Gel Grades



35	-	70	Mesh	200	-	400	Mesh
60	-	120	Mesh	230	-	400	Mesh
100	-	200	Mesh	400	-	600	Mesh
70	-	230	Mesh	600	-	800	Mesh

### Aluminium Oxide Grades





# A BOUTIQUE

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## EXHIBIT ZONE

49



# Table Partners





## A Boutique **Exhibit Zone**

It's a tremendous value-add to a great event. The highlight being the highly motivated table partners who went miles to put together a showcase of their products and services.

A mini-exhibition that buzzed with activity throughout the day...business enquiries on each table was the satisfying result!





















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- **Silicycle, Canada** – Silica Based Metal Scavengers, Flash Cartridges, Functionalised Silica Gels
- **Emp Biotech, Germany** – Separation, Purification, Life science and Oligonucleotide Synthesis Reagents
- **IKA, Germany** - Magnetic Stirrers, Overhead Stirrers, Bioreactors, Viscometer, Centrifuge
- **Saint Gobain, USA** - Tubing, Hoses & Connectors, Single Use Bags/Liners, Manifold Assembly
- **Memmert, Germany** - Ovens, Incubators, Humidity Chamber, Water Baths
- **LSS, Italy** – Safety Cabinets for flammable substances, chemicals. Acids, compressed gases
- **KNF, Germany** – Diaphragm Vacuum Pumps & Chemical Metering Pumps
- **Brady, USA** - Labelling & Printing Solutions, Track & Trace solutions.
- **Asynt, UK** - Laboratory Reactors for Flow Chemistry
- **Sigma Aldrich – Merck** – Life Science Products, Excipients
- **Avantor, USA** – Ace Columns, JT Baker Range of Solvents
- **Advent Chem Bio, India** - Fine & Speciality Chemicals
- **Apollo Scientific, UK** - Research chemicals, including intermediate building blocks, fluorochemicals, and life science reagents
- **Inscinstech, China** - Oligonucleotide synthesis equipment & protein purification systems
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- **Enamine, Ukraine** - Building blocks, screening compounds, and custom synthesis services for drug discovery and development.

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# VISUAL

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## TOUR

59





For Thought Provoking Leadership in  
Chromatography Purification



7<sup>th</sup> June  
2024  
10:30 am



7<sup>th</sup> June  
2024  
2:50 pm



9<sup>th</sup> June  
2024  
10:30 pm

## Days Before to **Day Before!**

It was built brick by brick; some days challenging...some nights fun...weeks of chaos, yet together we were always on the run! We tried to keep in mind the minutest of details...we, however, did slip at places only to reaffirm that we would get up better and build another one brick by brick again!



11<sup>th</sup> June  
2024  
9:15 pm



11<sup>th</sup> June  
2024  
9:30 pm



11<sup>th</sup> June  
2024  
9:45 pm



11<sup>th</sup> June  
2024  
10:12 pm



11<sup>th</sup> June  
2024  
11:45 pm



12<sup>th</sup> June  
2024  
1:25 am



12<sup>th</sup> June  
2024  
2:45 am



12<sup>th</sup> June  
2024  
3:10 am



12<sup>th</sup> June  
2024  
4:10 am





The banquet is  
prim and proper...  
awaiting its  
valued attendees!











For Thought Provoking Leadership in  
Chromatography Purification



## Crowning Glory

The hour dawned, unveiling of PURIFY'24-West was an emotional moment for us as we were set to unveil the biggest PURIFY event ever! Pearl of an edition, rightfully, in the city of pearls! This is the biggest moment of truth for all our efforts...thank you, dear Industry, for your overwhelming response in every single way!







# Constellation of Stars

The celestial speakers, as they spoke, took the event to another orbit. It turned out to be akin to the 'Big Bang Theory' that vividly provided a 360 degree perspective to the planet called 'Chromatography Purification'. The speakers made sure that there was no dark matter...everything highlighted was lucidly explained.



**Professor M. M. Sharma**

Emeritus Professor of Eminence, Institute of Chemical Technology, Mumbai



**Olga Krivosheeva**

Application Project Manager, Nanologica AB, Sweden



**Navin Devadiga**

Asst. Manager - Drug Discovery, Business Development, Shimadzu Analytical (India) Pvt. Ltd., Mumbai



**M. V. Narendra Kumar Talluri**

Director, Daicel Chiral Technologies, Hyderabad

PURIFY'24 West was a very well organised, wonderful platform for connecting wonderful knowledge base with experts from industry.

**Shrikrishna M. Nandanwadkar**

Product Manager, Nexus Biotech Pvt. Ltd.

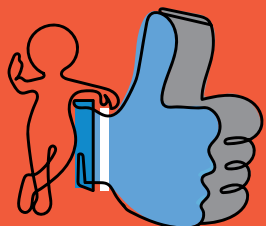
“

Scheduling of talks and panel discussion content was the best part of PURIFY'24 West.

**Prashant Pandit**

Manager, IPCA Laboratories Ltd.

”







**Anil Oroskar, Ph.D.,**  
CTO and Founder,  
Orochem Technologies Inc., USA



**Manish Thakur**  
Business Development Manager,  
Buchi India Pvt. Ltd., Mumbai



**Fredrik Limé**  
Ph.D., Technical Development Manager Pharma, Personal  
Care & Pharma | Performance Formulations, Kromasil,  
Sweden



**Jayati Banerjee, Ph.D.,**  
Portfolio Manager, Organic and Peptide Workflow,  
Biotage India Pvt. Ltd., New Delhi

“Panel discussion with company heads. And the discussion on AI was interesting.”

**Pravin Chindarkar**  
Manager,  
IPCA Laboratories Ltd.

“Networking was the best thing at PURIFY'24 West.”

**Siva Kumar**  
Sales Director,  
Labmate Asia Pvt. Ltd.

“Best part of the event was the panel discussion on market demands and scale-up challenges for Semaglutide & Tirzepatide.”

**Meghna Vanza**  
Research Director,  
Ipsium Lifesciences LLP



**Jordi Bacardit Cabado**  
Advisory Board,  
Sanitech Engineers Pvt. Ltd., Mumbai



**Venkat Reddy Thangella, Ph.D.,**  
Director - Strategic Growth & Scientific Operations,  
Intech Analytical Instruments, Hyderabad



**Balaji Sitharaman, Ph.D.,**  
President,  
Millennial Scientific, New York



**Srushti Sanghavi - Shah**  
Manager, Peptide Purification,  
Nanghavi Chromatography Solutions Pvt. Ltd., Mumbai

“ PURIFY'24  
West – A good  
platform to explore  
your ideas & queries.

**Bhushan Kirange**  
Senior Research Scientist,  
Lupin Limited

“

Was able to meet  
Professor M. M. Sharma.

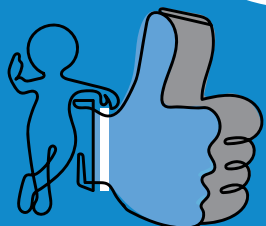
**Prakash Kotwal**  
General Manager Manufacturing,  
Lupin Limited (Biotech Division)

There were great knowledge sharing sessions  
that were useful.

**Swapnil Zadbuke**  
Principal Scientist,  
Lupin Limited

”

”





**Sunder Ch.,**

Director - Engineering & Automation,  
Intech Analytical Instruments, Hyderabad



**Akshay Holkar**

Area Sales Manager - Chromatography, Avantor  
Performance Materials India Pvt. Ltd., Mumbai



**Darshan Engineer**

Sr. Business Development Manager,  
Phenomenex India Pvt. Ltd., Hyderabad



**Hemant Kohli**

International Business Cum Technical Director,  
AgileBio Technologies, China

“The panel discussion on  
‘Biologics – The Next Big  
Opportunity for Purification’,  
was the best thing at  
PURIFY’24 West.  
**Someshwar Tupake**  
M J Biopharm

”

“To me the best thing  
at PURIFY was the  
presentation on  
purification by SFE &  
SMB.

**Bhavsar Jigar**  
General Manager I CRD-API,  
Mankind Research Centre

“Management and data  
sharing was really impressive  
at PURIFY’24 West.  
**Balaji Sitharaman**  
Director,  
Millennial Scientific

”





**Prof. Aniruddha B. Pandit**

Vice Chancellor,  
Institute of Chemical Technology, Mumbai



**Damodharan Satagopan**

CEO - API,  
Sun Pharmaceutical Industries Ltd., Mumbai



**E. R. R. Chandrashekar, Ph.D.,**

Head API - R&D, Vice President,  
Lupin Limited (Research Park), Pune



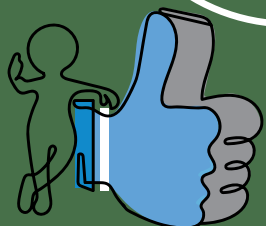
**Swaminathan Sivaram**

Professor Emeritus and INSA Emeritus Scientist,  
Indian Institute of Science Education and  
Research (IISER), Pune

“ The  
presentations  
were mind-blowing  
without any lag.

**Bharath Krishna K.**

Manager - Sales and Marketing,  
N2 P2 Inc.



“ The content of event was the best thing.

**Dharmesh S. Bhatt**

Head-Analytical,  
O2H Discovery Private Limited ”

“ The discussion topics and timeframe  
followed were good at  
PURIFY'24 West.

**Ashish Chinchansure**

Deputy Manager - Analytical Chemistry,  
Natural Remedies Pvt. Ltd. ”



**Prof. V. N. Rajasekharan Pillai**  
Moderator  
Vice Chancellor,  
Somaiya Vidyavihar University, Mumbai

## Panel Discussion **Skilling: A Big Need for the Next Growth Wave – Get Ready!**

“ The best thing at PURIFY24 West was highlighting a real / current problem of the industry of lack of skilled individuals vide a panel discussion. This will definitely help the industry and academics to think on collaborative research.

**Ninad V. Puranik**  
Asst. Director,  
OmniActive Health Technologies Ltd.

”

“ PURIFY'24 West - Well organised, panel, discussion topics and the communication by the presentations was the best thing at PURIFY'24 West.

**Ankit Bhatt**  
Manager - R&D (FRD),  
Pharmanza Herbal Pvt. Ltd.

”



**Indraneel Sanyal**

Sr. Director, Biologics Development, Aragen  
Biologics Private Limited, Bengaluru



**Indraneel Sanyal**

Sr. Director, Biologics Development,  
Aragen Biologics Private Limited,  
Bengaluru



**Madhu Utamsingh**

Designated Partner, Hemmo Pharma LLP, Mumbai;



**Prakash Kotwal**, General Manager Manufacturing,  
Lupin Limited (Biotech Division), Pune;

PURIFY'24 West is organised very well with multiple presentations on the latest in technology. It is also a medium for various vendor interactions.

**Umamaheshwar Puppala**

Director,  
Sai Life Sciences Limited

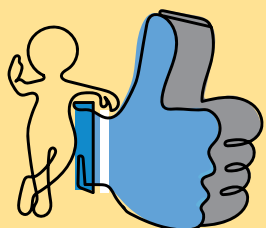
“

The panel discussions provide insights of industry pain points & motivates all to get solutions for better business opportunity.

**Parin Shah**

Manager Process Development,  
Sanitech Engineers Private Limited

”







**Somesh Sharma**

Moderator

Executive Vice President, Discovery Services,  
Aragen Life Sciences, Hyderabad

## Panel Discussion **Biologics: The Next Big Opportunity for Purification**

“

Very well organised event  
with a good choice of  
speakers and subject  
coverage.

**Padma Shree Vankar**

Head, Shimadzu - Somaiya  
Vidyavihar University

”

“

Having prominent  
experts of peptide  
field under one roof  
especially during panel  
discussion was the best  
thing at PURIFY'24 West.

**Surabhi Tanwar**

Sorbchem India Private Limited

”

“

PURIFY'24 West is great  
event and what a great  
management. I like it!

**Adesh Kurkute**

Research Scientist,  
Piramal Pharma Limited

”



Panel Discussion  
**Market Demands  
and Scale-up  
Challenges in Context  
of Semaglutide and  
Tirzepatide**



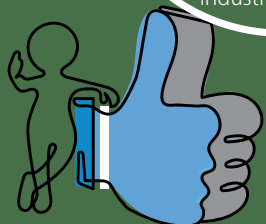
**Muralidharan Chandrakesan**

Moderator

Vice President, Auropeptide Ltd.,  
Hyderabad

“ Panel  
discussion on  
‘Skilling’ is biggest  
need for next growth.

**Anilkumar Bhatt**  
Senior Manager - 1,  
Sun Pharmaceutical  
Industries Limited



“ All presentation regarding purification  
were very good at PURIFY24 West.

**Shivaji Digambar Dhole**

Group Leader,  
Synthink Research Chemicals”

“ PURIFY – It is precise and to the  
point discussion, with respect of  
time in presentations.

**Satyajeet V. Tillu**

Site Head – GM,  
Piramal Pharma Limited”



**Arvind M. Lali**

Chief Technical Officer, Vidyan BioCommerce Pvt. Ltd., Mumbai, Retd. Professor of Chemical Engineering and Former Head, DBT-ICT-Centre for Energy Biosciences, ICT, Mumbai



**Chetan Doshi, Ph.D.**

Chief Scientific Officer, R & D, Generic Research, USV Private Limited, Mumbai



**Nitin Patil, Ph.D.**

Head API - Peptides and Downstream Research and Development, Biocon Limited, Bengaluru

“

The academy and industry experts' session was the best part of PURIFY'24 West.

**Purnendu Roy Chowdhury**

Vice President - Analytical, TCG Lifesciences Pvt. Ltd.

”

“

At PURIFY24 West, both the presentations & the panel discussions were good.

**Harish Kumar**

Head - FBT R & D, Zydus Lifesciences Limited

”

“

It was good to listen to 'Market demands and scale up challenges in context of semaglutide and tirzepatide'.

**Shakil Sait**

HOD ARL (Analytical Research Laboratory), USV Private Limited

”





## Panel Discussion **Empowering Productivity through AI Integration**



**Manish Chawla**

Moderator

Managing Partner,  
Custage Marketing Solutions LLP, Mumbai

“

This conference is  
very informative.

**Nilesh Patil**

Chief Manager Production,  
Piramal Pharma Limited

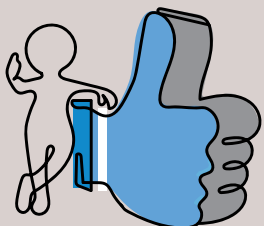
“

At PURIFY'24 – Panel discussion insights &  
their views on upcoming challenges and  
how to deal it with was the best thing.

**Nandlal Yadav**

Sr. AGM - ARL,  
USV Private Limited

”





**Somesh Sharma**

Executive Vice President, Discovery Services,  
Aragen Life Sciences, Hyderabad



**Swapan Kumar Jana**

Director - R&D and Manufacturing Human Vaccine  
Development, Serum Institute of India Pvt. Ltd., Pune

“

It will help to us in our current  
purification techniques  
and it is advantageous to  
understand our projects.

**Brijeshkumar Patel**

Sun Pharmaceutical Industries Limited

”

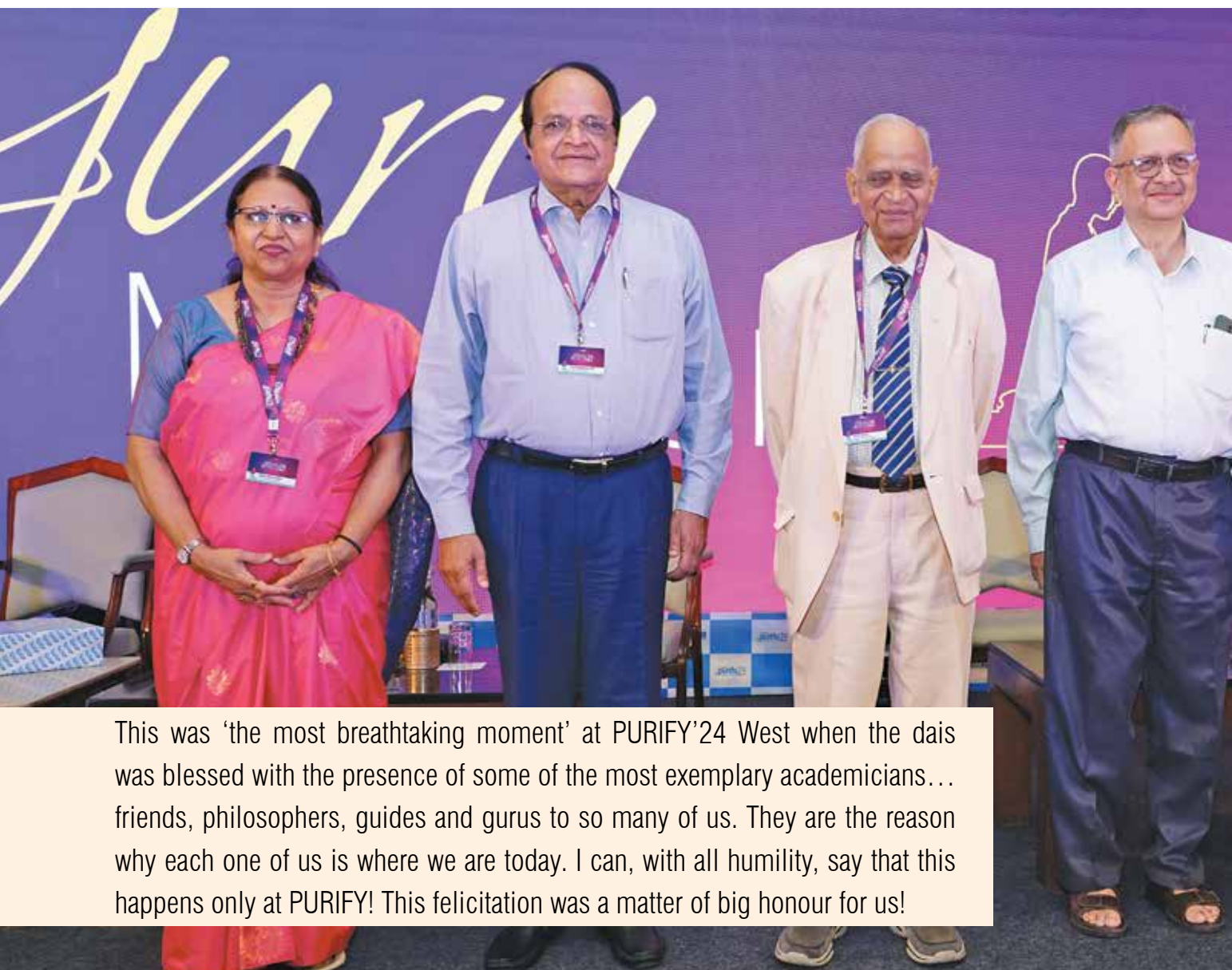
“

The best part of  
PURIFY'24 West was that we  
could witness all purification  
techniques at one place.

**Ganpatdan Charan**

Principal Scientist,  
Zydus Lifesciences Limited

”



This was ‘the most breathtaking moment’ at PURIFY’24 West when the dais was blessed with the presence of some of the most exemplary academicians... friends, philosophers, guides and gurus to so many of us. They are the reason why each one of us is where we are today. I can, with all humility, say that this happens only at PURIFY! This felicitation was a matter of big honour for us!

“

Highlighting the new innovations in market, as well as the challenges was the best part of PURIFY’24 West.

**K. Narayana Prasad**

Senior Manager,  
Sun Pharmaceutical Industries Limited

”

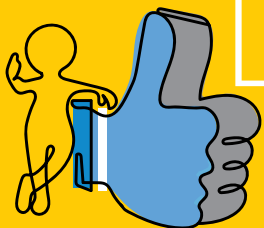
“

The learning process with subject and instrumented examples was the best thing of PURIFY’24 West.

**Purveshkumar Dobariya**

Sr. Scientific Manager,  
O2H Discovery Private Limited

”







A moment of personal gratitude for me (Manish Chawla). Thank you, Anurag Toshniwal (right) and infact, the entire Toshniwal family for playing such an important role in nurturing my career and teaching me when it mattered the most. And then, a big thank you to Dr. Bansi Lal (left) for being my first customer 32 years ago and helping me understand what was expected out of me. I will remain indebted forever!



“ PURIFY is the perfect platform for understanding the beauties of separation sciences & innovation in purification.  
**Tejas Namjoshi**  
Director,  
OmniActive Health Technologies Ltd. ”

“ PURIFY'24 West captured different angles of the chromatography purification sector. To me, this was the best part of the event.  
**Vallabh Mulay**  
Manager - Research & Tech,  
Pharmanza Herbal Pvt. Ltd. ”



## Baat Bann Gayi!

They spoke, and they spoke and they spoke! Networking opportunities scored high in both, quantity and quality. This magnum opus from Custage Marketing Solutions struck a strong chord amongst all - be it business or personal!

















































# Two-Together







# Knowledge, The Fibre of Success





PURIFY'24-WEST came with something for everybody. The audience stayed right till the very end! The right speakers, the right topics, the right schedules, the timeliness of execution, all contributed to the rapt attention as knowledge was seamlessly flowing through the day for unparalleled enrichment.































For Thought Provoking Leadership in  
Chromatography Purification

## LUCKY DRAW WINNERS!



Vallabh Mulay from Pharmanza Herbal Pvt. Ltd. (left) wins the Mega Prize, presented by Jordi Bacardit Cabado (extreme right) from DocuChem SLU / Sanitech Engineers



**L'Occitan**  
Gift Box

Sunith Mandala from Exfinity Ventures (left) is all smiles when he wins his prize, presented by Venkat Reddy Thangella from Intech analytical Instruments (right).



**Amazon**  
Fire TV Stick

“

Amazing exposure, and meeting opportunity with industry experts.

**Mohit Kawa**

Business Development Associate,  
Sawant Filtech Pvt. Ltd.

”

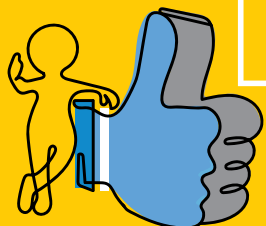
“

The best part of the event was panel discussions which involved thoughts of the panelists with various opinions.

**Trishna Khadke**

Process Engineer,  
Sun Pharmaceutical Industries Limited

”







**Portronics**  
Smart Fitness Wristband

Jagmohan singh from Lupin Limited (Research Park) (left), a proud winner; the prize is presented by Hemant Kohli from Agilebio (Tianjin Biosepur Purification Equipment Material Technology Co. Ltd) (right).



Monika Sangal from Millennial Scientific (left) receives her prize from Nilesh Badani from Sanitech Engineers Private Limited (right).



**Noise**  
Wireless Buds



**Tommy Hilfiger**  
Ranger Leather Passcase

Vinayak Vele from FDC India (left) is joyous on receiving his prize, presented by Swapan K. Jana from Serum Institute of India (extreme right).



“ Best networking opportunities and updates for staying relevant in terms of knowledge and current affairs were the key takeaways at PURIFY’24 West. ”

**Prashant Shetkar**  
CEO,  
N2 P2 Inc.

“ The best thing at PURIFY’24 West was bringing together the best of the industry and academia on a single stage to address the gap in skills and exposure of degree and requirements. ”

**Sumeet Kumar**  
Manager,  
Teva API India Pvt. Ltd.





## Beyond **Business**

A pen stand made of soapstone with inlay; soapstone is believed to promote rational and creative thinking, while having an effect of positive and calming energy.



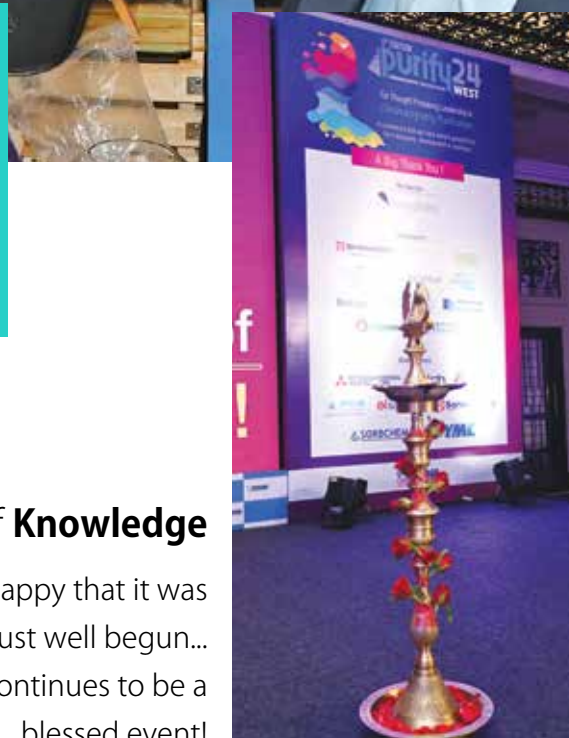
## A Digital **Podium!**

A stylish change...from a typical static podium to a 'digital podium' with dynamic content and a unique communication platform.



## The Big **Bag!**

The bag got its share of appreciation as well. A quality bag containing quality content for the discerning delegates! This one had it all! The latest information sheets from the sponsors reached every single attendee.



## Light of **Knowledge**

We were happy that it was more than just well begun... PURIFY continues to be a blessed event!



## PURIFY **Embraces AI**

PURIFY continues to be forward looking in its implementation and showcased the power of AI wherein every attendee could register his/her face, and AI would do image mapping and share all the images where he/she is featured, right on their 'WhatsApp'! The participants were excited at this prospect and amazed with the response!



# PURIFICATION PRODUCTS



Quality



Innovation



Competitive  
Price

LC System-Sail 1000

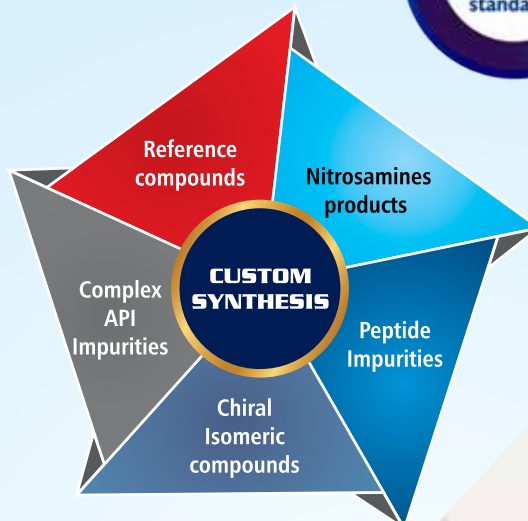
DAC

Packing Material

Prep Column



# YMC



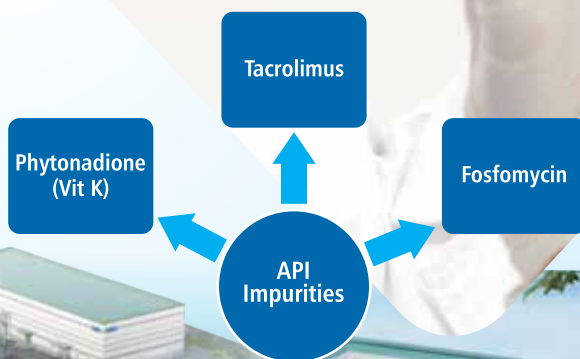
INDIA / JAPAN / AMERICA / GERMANY / KOREA  
TAIWAN / SINGAPORE / CHINA

## OUR KEY SERVICES



### CUSTOM RESEARCH

- Multistep organic synthesis
- Process optimization
- Route scouting
- Milligram to kilogram scale
- FTE & FFS model



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**E-mail :** sales@ymcindia.com

**YMC Hyderabad Lab :** Second Floor, Plot No- 78/B3, SY number 78/B3, Phase VI, IDA Jeedimetla, Gajularamaram Village, Quthbullapur Mandal, Medchal-Malkajgiri District,Telangana-500055





# NOTES

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There is no text or other markings on the paper.

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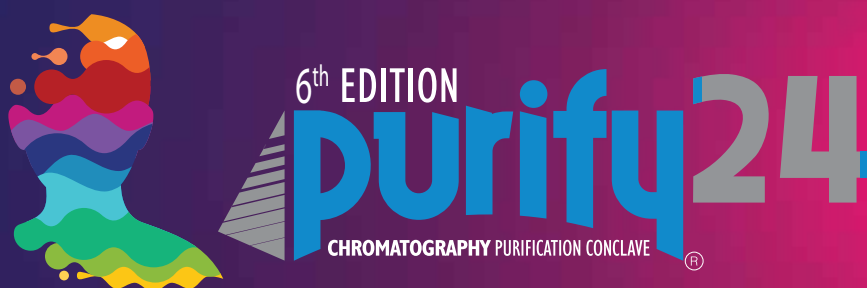
**Custage Marketing Solutions LLP**

406, Vikas Centre, Dr. C. G. Road, Chembur, Mumbai 400 074, India.

**M:** +91-88790 50327; **E:** [info@custage.com](mailto:info@custage.com)



# SEE YOU AT THE NEXT EDITION on 17<sup>th</sup> December, 2024 at ITC Kohenur, Hyderabad



For Thought Provoking Leadership in  
Chromatography Purification

Wish to



**Attend**

The industry turned out in numbers at PURIFY'24-WEST, with delegates from over 26 cities. Book your seat as most certainly this is an event that no chromatographer will want to miss. With limited seating, an early decision will only help!



**Partner**

The surest way to make your brand visible and thus your business is to choose among the so many sponsorship opportunities available. Maximise your presence for best returns.



**Speak**

Stamp your authority of leadership and success; achieve acclaim across India...speaking at PURIFY'24 is one sure way to do it.



**Display**

You can book a tablespace to showcase your offerings...the right people will be there to see your capabilities.

**Custage Marketing Solutions LLP**

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rashi@custage.com +91-91366 00573 [www.purifyconclaves.com](http://www.purifyconclaves.com)