

MARCH 2024

CHROMATOGRAPHY *Connect*

The Event
Summarised

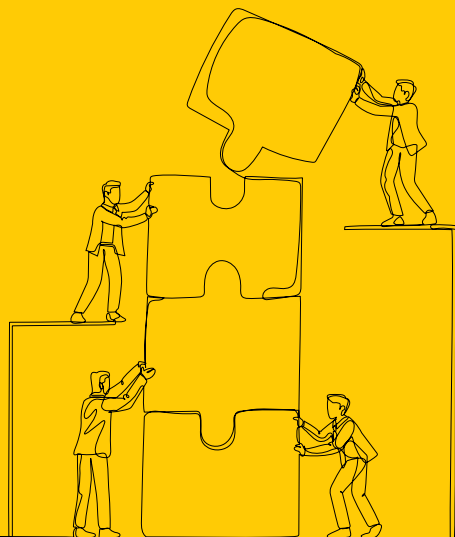


4th EDITION

purify23
CHROMATOGRAPHY PURIFICATION CONCLAVE®

7th November, 2023; ITC Kohenur, Hyderabad

For Thought Provoking Leadership in
Chromatography Purification



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4th EDITION
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...a landmark event

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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.

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'23!





In Dialogue

Dear Esteemed Chromatographers,

As we complete the 4th Edition of PURIFY Conclaves, we look back, happy and satisfied as the 4th Edition of PURIFY'23 held at Hyderabad on 7th November, 2023 was the biggest gathering this far with 320 attendees, and I hope we raise the bar still further each time. A deep-hearted thank you to delegates, speakers and sponsors for making PURIFY meaningful for the industry.

We are overwhelmed to note that PURIFY Conclaves are increasingly becoming a part of the industry calendar of events, globally. As a technique, chromatography purification continues to excite the industry as it stretches possibilities with a dynamically changing horizon.

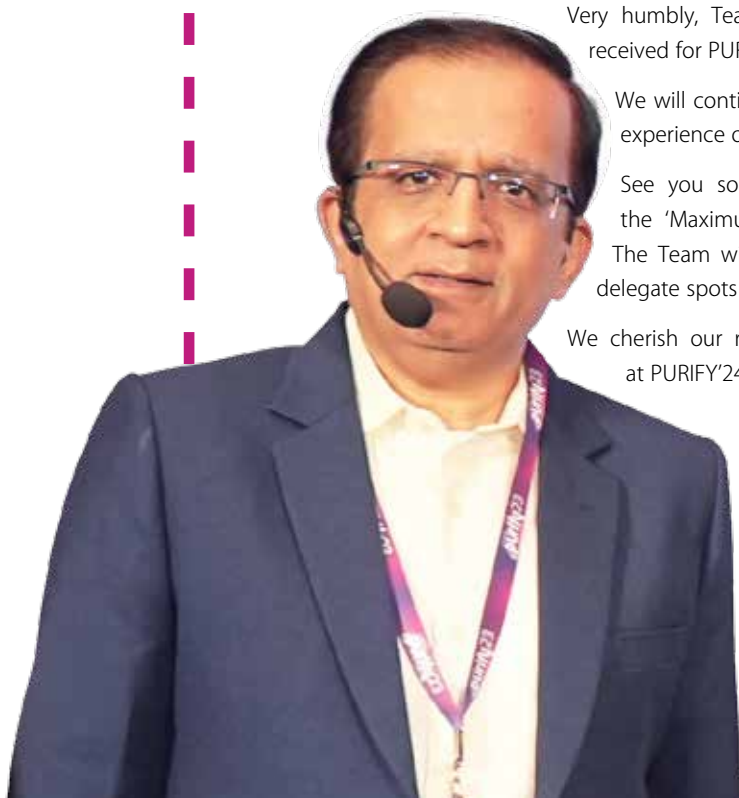
To add, on the other hand, India continues to inspire the world with its progress. The Indian pharmaceutical and biopharmaceutical industries are taking giant strides for their ability to deliver! Thus, the PURIFY platform for chromatography purification, conceived here in India, has attracted and will continue to attract brands from across the world to make a meaningful impact at PURIFY Conclaves. Incidentally, this edition of PURIFY also witnessed the largest number of overseas guests; truly obliged!

Very humbly, Team PURIFY accepts the gracious accolades and feedback received for PURIFY'23.

We will continue to improvise, address our shortcomings and make your experience of attending a PURIFY event truly memorable.

See you soon at our next edition at Mumbai...for the first time at the 'Maximum City'! Be there as we curate the script of PURIFY'24! The Team will reach out to you as always for sponsorship, tablespace, delegate spots and more.

We cherish our relationship with you! We cherish your business! See you at PURIFY'24!



Manish Chawla
Managing Partner
Custage Marketing Solutions LLP

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.

Katkam Srinivas

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

Muralidharan Chandrakesan

Associate 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

Somesh Sharma

Sr. Vice President - Discovery
& Development Solutions,
Aragen Life Sciences,
Hyderabad

Y. S. Lakshmi Narasimham

Sr. General Manager - Analytical,
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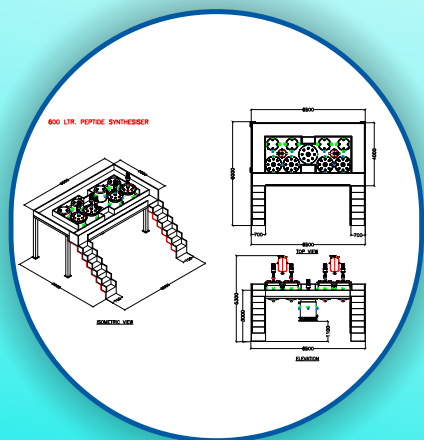
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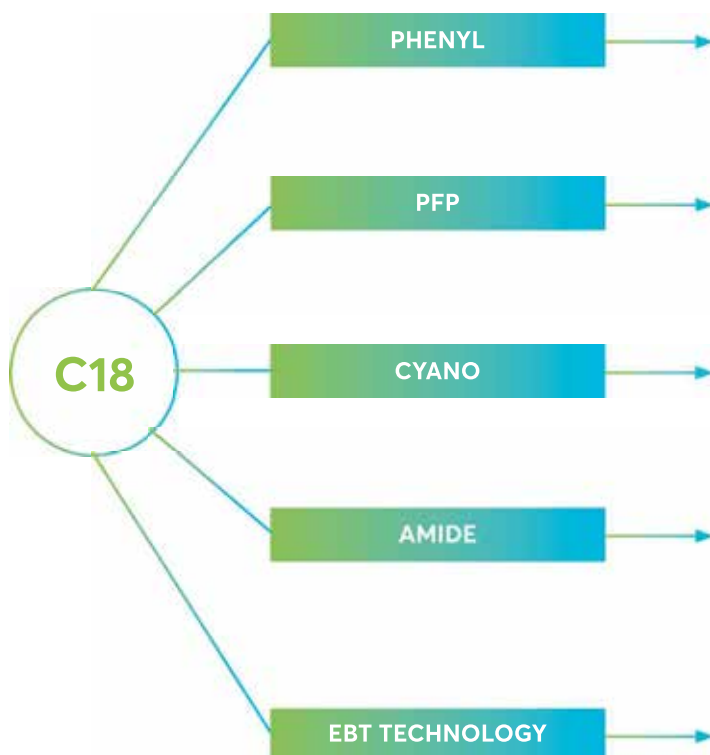
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VIVID CAMPAIGNS --- AND PROGRAMME



For Thought Provoking Leadership in
Chromatography Purification

Vivid Campaigns

As Rome wasn't built in a day, so was the success of PURIFY'23. It's been 115+ 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'23!



PRESS RELEASE



Are You Ready to Embark on A Transformative Journey in The World of Chromatography Purification?

Look no further than PURIFY23 - The most anticipated event of the year for professionals in the pharmaceutical industry at ITC Kohema in Hyderabad on 7th November, 2023.

Global Perspective: Join us at PURIFY23 to connect with speakers and experts from across the globe. Gain insights from diverse perspectives that are shaping the future of chromatography purification.

In-Depth Discussions: Dive into this important aspect with our three illuminating panel discussions on:

- Demystifying the Complexity of Oligo Nucleotide Business
- Investing in Right Technologies Imperative for Business Growth
- AI, a Disruptor / Enabler?

Network with 300+ Delegates: Expect to mingle with over 300 like-minded delegates, all enthusiastic about advancing their knowledge in chromatography purification.

Renowned Speakers: Our line-up of renowned speakers will share their wisdom and experience, guiding you through the latest trends and innovations in the field.

Asia's Exclusive Platform: Be part of Asia's only forum dedicated to Chromatography Purification. Your chance to be at the forefront of industry developments.

Record-Breaking Event: PURIFY23 is set to be the largest conclave ever conducted by PURIFY. Do not miss your chance to be part of history in the making.

Global Launches: Witness groundbreaking global launches that will redefine the way we approach chromatography purification.

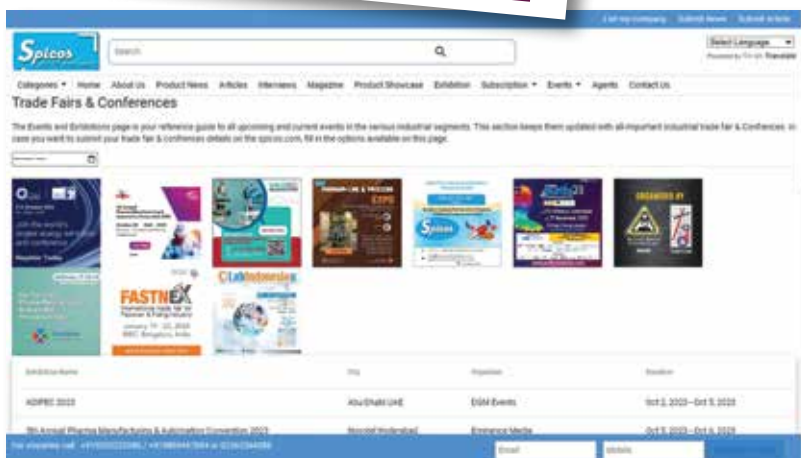
Exhibit Extravaganza: Explore a diverse exhibit display featuring over

35 companies showcasing cutting-edge products and technologies. Limited Seating: Hurry, seats are filling up fast! Secure your spot today and be a part of this exclusive event that the industry is eagerly awaiting.

If you are seeking to achieve pure results in less time, with fewer resources, PURIFY23 has something special in store for you. Don't miss out on this opportunity to elevate your approach to chromatography purification.

Make sure you do not miss out on this exceptional opportunity! Register now at purifyconclaves.com to reserve your seat at PURIFY23!

26 | Pharma Utility | August 2023





For Thought Provoking Leadership in
Chromatography Purification

BioSpectrum - Banner

Thursday, 13 August 2023

Home News Updates Pharma Special Healthcare Start-ups Bio-Med Bio-Interactions Awards

The next level of ventilator operation with Evitar V600

News - Supplier

PURIFY 23 to open in Hyderabad on 7 November focusing on chromatography purification

PURIFY 23 is set to be the largest conclave ever conducted by Purify

7th November, 2023; ITC Kohanur, Hyderabad

REGISTRATIONS NOW OPEN

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4th EDITION **purify23**
CHROMATOGRAPHY PURIFICATION CONCLAVE

For Thought Provoking Leadership in Chromatography Purification

7th November, 2023; ITC Kohanur, Hyderabad
9:00 am - 6:45 pm followed by Cocktails & Networking Dinner

ONLY 5 DAYS LEFT

A Boutique Exhibit Zone

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Supporting Association: National Association of Chromatography Purification

Media Partners: ANI, PTV, News, ITC, CRYSTAL, Millennial Scientific, Sarama Filtech, SHIMADZU, TELERME ISO, ULTRA, welch, YMC

Contact: Rasht Jeswani
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FOR MORE DETAILS VISIT
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REGISTRATIONS FILLING FAST

4th EDITION **purify23**
CHROMATOGRAPHY PURIFICATION CONCLAVE

For Thought Provoking Leadership in Chromatography Purification

GET LUCKY!

DELEGATES STAND A CHANCE TO WIN EXCITING PRIZES

7th November, 2023; ITC Kohanur, Hyderabad
9:00 am - 6:45 pm followed by Cocktails & Networking Dinner

Every delegate gets an **ASSURED GIFT...**

At PURIFY 23 along with providing "Knowledge", we wish you wealth, prosperity and positive energy!

Tommy Hilfinger, Infinity Harman, JBL, Victorinox, Amazon

REGISTRATIONS NOW OPEN

Chemical Industry Digest

TCI Chemicals, Secy business

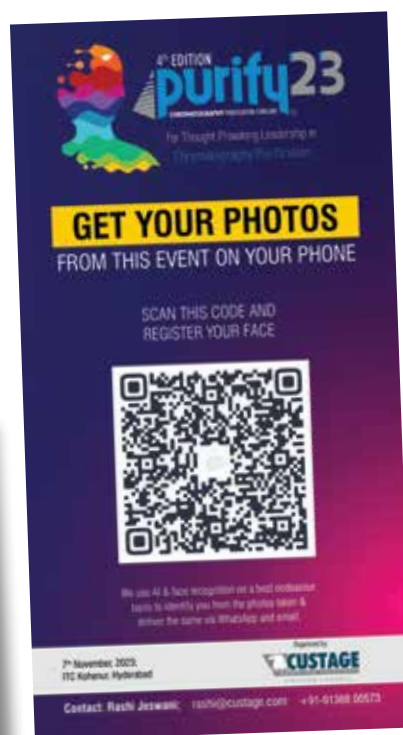
Chromatography Purification Conclave to be Held in Hyderabad in November

7th November, 2023; ITC Kohanur, Hyderabad

REGISTRATIONS NOW OPEN

MANAGEMENT OF CHEMICAL TECHNOLOGY

Chemical Industry Digest - Banner



Programme

Never before a programme with such diversity of talks, coupled with depth of knowledge. Speakers from PAN India adorned PURIFY'23.

Timing	Presentation	Speaker
8:00 am - 9:00 am	Registration with Networking Tea / Coffee	
9:00 am - 9:20 am	Inauguration and Welcome Address	Jayesh Ranjan, Andreas Bhagwani, Advisory Board and Manish Chawla
9:20 am - 9:30 am	Keynote Address	Jayesh Ranjan , I.A.S., Principal Secretary, Information Technology (IT) & Industries and Commerce (I&C), Government of Telangana
9:30 am - 9:50 am	Inaugural Address: GLP-1 Receptor Agonists – Fundamentally Changing the Landscape of Weight Management; Purification, a Big Role to Play	Andreas Bhagwani , CEO, Nanologica AB, Sweden
9:50 am - 10:10 am	Chromatographic Separations Using Polymeric Adsorbent Resins: Case Study of Peptide Purification Using Improved Simulated Moving Bed	Tokumaru Izuru , Division Manager, Director of the Board, Mitsubishi Chemical Aqua Solutions, Japan
10:10 am - 10:30 am	Optimising Workflows for Biotherapeutic Production	Khaled S. Mriziq , Senior Global Product Management Manager, Process Chromatography, Bio-Rad Laboratories, USA
10:30 am - 10:50 am	Bioprocess Chromatography Intensification - Inline Dilution / Conditioning Based Automated System for Buffer Prep Area and Innovative Chromatography Systems	Charles MY Lim , Director - International Business, Lisure Science (Suzhou) Co. Ltd., China
10:50 am - 11:20 am	Panel Discussion: Importance of Investing in Right Technologies - Imperative for Business Growth	Ankur Vaid , Joint Managing Director & CEO, Concord Biotech Limited, Ahmedabad; E. K. Lee , Professor Emeritus, Dept. of Bionano Engineering, HanYang UniversityERICA, Korea; Madhu Utamsingh , Designated Partner, Hemmo Pharma LLP, Mumbai; Moderator: M. Damodharan , Chief Quality Officer, Global Quality & Regulatory Affairs, Sai Life Sciences Ltd., Hyderabad
11:20 am - 11:45 am	Networking Tea / Coffee Break	
11:45 am - 12:05 pm	Improve Purification Efficiency and Reduce Your Purification Footprint by Using a Single System for Scouting, Collection and Reanalysis	Sambasivarao Vattikuti , ACG-COM-LSS Global Sales, Agilent Technologies, Hyderabad
12:05 pm - 12:25 pm	No more TLC - Redefining Flash and Preparative Chromatography Method Development	C. S. Godbole , Partner, Septech Marketing LLP, Mumbai
12:25 pm - 12:45 pm	Simulated and Experimental Methods for Binaries in Chromatography	Birger Holz , Senior Business Development Manager Asia, KNAUER, Germany and N. Hari , Technical Director, Inexus Biotech Pvt. Ltd., Chennai
12:45 pm - 1:05 pm	Preparative HPLC with a Metal Free Flow-path (PEEK) for High Performance Protein and Radiochemical Compounds Purification	Arie Kant , Managing Director, Sykam GmbH, Germany
1:05 pm - 1:25 pm	Exploring the Newest Applications in Perfume and Pharma in Supercritical Fluid Chromatography	Brice Sarraill , Managing Director, SFE Process, France and Piotr Kesicki , International Sales Manager, SFE Process, France

Timing	Presentation	Speaker
1:25 pm - 1:45 pm	Optimising the Usage of a 2000 mm DAC Column; an Insight into Its Design and Automation	L. Koteswara Rao , Managing Director, Intech Analytical Instruments, Hyderabad
1:45 pm - 2:35 pm	Networking Lunch Break	
2:35 pm - 2:55 pm	Enhance LC Purification Workflow: Discover Time Saving Improvements for Your Analysis	Navin Devadiga , Asst. Manager - Drug Discovery, Business Development, Shimadzu Analytical (India) Pvt. Ltd., Mumbai
2:55 pm - 3:15 pm	Chiral Separations: Milligram to Metric Tonne Scale	M. V. Narendra Kumar T. , Director- Knowledge Management and Tech Support, Daicel Chiral Technologies India, Hyderabad
3:15 pm - 3:35 pm	Scaling Up of Purification of a Diverse Range of Molecules: Advancements in Chromatographic Techniques	Kandukuri Nagesh Kumar , Associate Director - Application Lab, YMC India Pvt. Ltd., Hyderabad
3:35 pm - 3:55 pm	Process Chromatography: Scale Up Strategies and Solutions	Sandeep B. Kale , Chief Executive Officer, Sanovaskale Technologies Pvt. Ltd., Pune
3:55 pm - 4:25 pm	Panel Discussion: Demystifying the Complexity of Oligonucleotides Business Raghavendra Goud Vaggu , Exec-Director, PharmNXT Biotech, Pune; Ravdeep Singh Anand , Chief Executive Officer, Hanugen Therapeutics Pvt. Ltd., Bengaluru; Nitin Bansode , Senior Research Investigator (Oligonucleotides / DC), Syngene International Ltd., Bengaluru; Moderator: Satyanarayana Kota , Director-Technical, Devi Pharmatech Pvt. Ltd., Hyderabad	
4:25 pm - 4:55 pm	Networking Tea / Coffee Break	
4:55 pm - 5:15 pm	A New Generation Silica for Peptide Purification	Olga Krivosheeva , Application Project Manager, Nanologica AB, Sweden
5:15 pm - 5:35 pm	Novel Stationary Phases for Improving Separation and Purification	Lalaso Mahind , Application Manager - Chromatography, Avantor Performance Materials Pvt. Ltd., Mumbai
5:35 pm - 5:55 pm	Sustainability and Green Technology Trends in Isolation of Chemical Constituents	Dileep Chandra Sreerama , Field Application Specialist (Chromatography), Buchi India Pvt. Ltd., Bengaluru
5:55 pm - 6:15 pm	How Digitalisation and Lab Automation Help in Pharmaceutical and Biotechnology Industries	Raveendranath Govindaraj , Founder and Managing Partner, Lab Iconics Technologies LLP, Hyderabad
6:15 pm - 6:45 pm	Panel Discussion: AI, a Disruptor / Enabler for the Pharma and Bio-pharma Industries Katkam Srinivas , Sr. Vice President, Global Head, Sales & Marketing - API, MSN Laboratories Pvt. Ltd., Hyderabad; M. Damodharan , Chief Quality Officer, Global Quality & Regulatory Affairs, Sai Life Sciences Ltd., Hyderabad; Muralidharan Chandrakesan , Associate Vice President, Auropeptide Ltd., Hyderabad; Somesh Sharma , Sr. Vice President - Discovery & Development Solutions, Aragen Life Sciences, Hyderabad; Moderator: Manish Chawla , Managing Partner, Custage Marketing Solutions LLP, Mumbai	
6:45 pm Onwards	Lucky Draw and Networking Cocktails & Dinner	





CHEMICAL INDUSTRY DIGEST



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1000ml/min	10 MPA (1450 Psi)	±0.5%	✓	✓
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3000ml/min	10 MPA (1450 Psi)	±0.5%	✓	-N/A-



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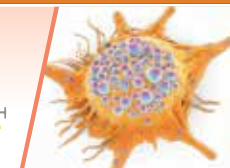


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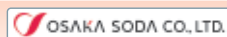
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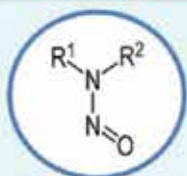
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ABSTRACTS

23



GLP-1 Receptor Agonists – Fundamentally Changing the Landscape of Weight Management; Purification, a Big Role to Play

Andreas Bhagwani, CEO, Nanologica AB, Sweden

Diabetes and obesity are currently two of the major healthcare burdens globally, for patients and for healthcare systems. Treatment for diabetes has been around for more than 100 years in the form of insulin, but in the last years we have seen a gradual increase in interest in GLP-1 receptor agonists for treating diabetes and later also obesity.

This interest has now exploded, and GLP-1 receptor agonists are totally changing the landscape for weight management, starting with Novo Nordisk's Wegovy, soon to be followed by Lilly's Mounjaro. However, many patients with diabetes and obesity remain untreated, or poorly treated, as the drugs are too expensive or not available in sufficient quantities.

GLP-1 receptor agonists and drugs with similar mechanisms of action are of particular interest, not solely due to their effects on blood glucose management and weight loss, but also due to their promising effects on cardiovascular conditions and Alzheimer's disease where clinical studies are ongoing. This cements the outlook for this drug class becoming the most important drug class globally the coming decades.

There are more than 100 clinical stage GLP projects ongoing and almost all of them will require purification. How will we, the industry, respond to this fundamental challenge? And how will the semaglutide patent expirations in China in 2026 effect the volume of existing products and the appetite for new projects? I am looking forward to discussing this with the participants at the Purify'23 Conclave.



Chromatographic Separations Using Polymeric Adsorbent Resins: Case Study of Peptide Purification Using Improved Simulated Moving Bed

Tokumaru Izuru, Division Manager, Director of the Board, Mitsubishi Chemical Aqua Solutions, Japan

Mitsubishi Chemical Aqua solutions is a Total Solution Provider for Chromatographic Separation media, Process Development & Optimization, and Advanced Chromatographic Systems. ISMB (Improved Simulated moving Bed) systems Provides better separation performance, Low Construction Cost and is Compact makes it ideal for high value product's purification where high purity without loss of the product (i.e., High Recovery) is required.

Our Separation medias (DIAION™ & SEPABEADS™) are polymer based with High Chemical stability (can be operated from pH 1-14) and are stable with Alkali cleaning also. Hence, these can be used for many no. of cycles with same Chromatographic Separation Profile & Performance. Wide Pore size & Particle size ranges makes it ideal selection for small & mid-size molecules.

My talk is focused on purification of a Peptide molecule with ISMB and Polymeric Stationary phase resulting in a Product with High Purity and very High Recovery.



Optimising Workflows for Biotherapeutic Production

Khaled S. Mriziq, Senior Global Product Management Manager, Process Chromatography, Bio-Rad Laboratories, USA

Leveraging 70+ years of life sciences expertise to advancing discovery across the spectrum of science. Bio-Rad is a global leader in innovative products for life science research and clinical diagnostics.

Developing biopharmaceuticals and other valuable products through cells, viruses, or entire organisms requires the development of precise processes, manufacturing practices, and quality control standards. Biopharmaceutical companies are evolving to meet the industry demands and supply needs. As biotherapeutic structures become more diverse, new workflows are emerging for the production of these biomolecules. New selectivity and high-capacity chromatography techniques are being implemented to maximize processes. We will present an overview of bioprocessing tools with focus on approaches to accelerate method development and optimize downstream purification workflows.



Bioprocess Chromatography Intensification - Inline Dilution / Conditioning Based Automated System for Buffer Prep Area and Innovative Chromatography Systems

Charles MY Lim, Director - International Business, Lisure Science (Suzhou) Co. Ltd., China

People talked a lot about bioprocess intensification but have rarely talked enough about buffer prep intensification. An Inline Dilution/Conditioning (ID/IC) Based Relay Tank System was developed as an alternative solution to traditional tank farm in biopharmaceutical plant. The system provides real-time buffer preparation capability for 6-8 different buffers simultaneously with much smaller vessel sizes

and cGMP footprints, achieving significant saving on capital investment and operating cost. Innovative strategies in standardizing the system made the solution a robust alternative to traditional tank farm and led to well controlled project execution. While highly recommended to greenfield project, the solution makes even difficult expansion of existing cGMP plant technically possible and economically achievable. Innovative integrated, multicolumn and continuous chromatography systems leads to productivity intensification.



Improve Purification Efficiency and Reduce Your Purification Footprint by Using a Single System for Scouting, Collection and Reanalysis

Sambasivarao Vattikuti, ACG-COM-LSS Global Sales, Agilent Technologies, Hyderabad

The talk covers the challenges that various industries are facing in terms of purification systems and the Agilent solutions available. It also discusses how an analyst workflow can be simplified, ultimately increasing lab efficiency. It also focuses on how various solutions can help you reduce your lab footprint, as lab space is a major issue for many organizations. It also discusses a solution in which a single system is used for method scouting, preparation, and re analysis. It addresses issues in a variety of industries, including pharmaceuticals, drug discovery, biopharmaceuticals, chemicals and energy, food and pesticides, academia, and so on. Automation, high throughput, specificity, purified compound analysis, speed and scalability, future proofing and upgradability, and flexibility are among the challenges addressed. Overall, it covers the Solution approach to increasing the lab's purification efficiency and productivity.



Simulated and Experimental Methods for Binaries in Chromatography

L-R: Birger Holz, Senior Business Development Manager Asia, KNAUER, Germany
N. Hari, Technical Director, Inexus Biotech Pvt. Ltd., Chennai

Ever since the conceptual introduction followed by practical implementation by Broughton and Gerhold, simulated moving bed (SMB), a continuous multi-column chromatographic process, has become an indispensable for the separation of binary mixtures such as the enantiomers of a chiral

compound. The utility of SMB has become so widespread, the manufacturing of active pharmaceutical ingredients, including wonder drugs, has become a reality. The key advantages such as higher productivity and purity, reduced solvent consumption, etc., have made SMB as a preferred choice over single column preparative chromatography, SMB separations achieve higher productivity and purity, while reducing the solvent consumption. In this talk, a theoretical introduction to SMB is given followed by showcasing a few examples where the practical implementation and power of SMB is demonstrated.



Preparative HPLC with a Metal Free Flow-path (PEEK) for High Performance Protein and Radiochemical Compounds Purification

Arie Kant, Managing Director, Sykam GmbH, Germany

Sykam Chromatography GmbH, based in Eresing, Germany will present and discuss the challenges and objectives to realize HPLC systems with a metal free flow-path enabling the use of polymeric high performance chromatography media with small bead-sizes (10-20µm) and columns up to 1 litre (50x500mm). The versatile concept of pumps, valves, detection and fraction collection is suitable for many well-known protein purification strategies and, well suitable and applied for radioactive compounds purifications. More specifically, serving the field of Lanthanoid purifications gaining lots of interest in recent years.



Exploring the Newest Applications in Perfume and Pharma in Supercritical Fluid Chromatography

L-R: Brice Sarraill, Managing Director, SFE Process, France
Piotr Kesicki, International Sales Manager, SFE Process, France

This topic delves into the most recent breakthroughs in equipment tailored for supercritical fluid chromatography (SFC), and how these innovations are revolutionising both the pharmaceutical and perfume industries. The presentation will spotlight state-of-the-art solutions, encompassing cutting-edge column technologies, pioneering pumping systems, and inventive sample injection methods. It will elucidate how these advancements in SFC equipment are enabling heightened separation efficiency, expanded peak capacity, and accelerated throughput, directly benefiting processes

within the pharmaceutical and perfume industries. Furthermore, it will expound upon the strides made in system control and automation, which foster greater precision and reproducibility in SFC workflows. By showcasing these newest technological solutions, the presentation aims to inspire scientists and researchers within the pharmaceutical and perfume industries to actively engage with the rapidly evolving field of SFC, harnessing these advancements to optimize the efficiency and capabilities of their analytical processes.



Optimising the Usage of a 2000 mm DAC Column; an Insight into Its Design and Automation

L. Koteswara Rao, Managing Director, Intech Analytical Instruments, Hyderabad

Using the DAC-2000mm in the production area with simplified operation is the critical parameter. Since the operation of packing and unpacking the media into the column is the primary step. Removing the Inlet and outlet frits from the DAC column for washing is the secondary step.

I will be describing how our DAC-2000mm made simple in design and how we make use of hydraulic system in operating the column.

Handling the fractions after the separation is another challenge in such bigger system, for which I will be explaining how our post column fraction pooling system can process the fractions which are in huge volumes.



Enhance LC Purification Workflow: Discover Time Saving Improvements for Your Analysis

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

Preparative Chromatography is a versatile technique, widely adopted across various research, development, and manufacturing applications. It plays a pivotal role in synthesizing new drug compounds, identifying active components in natural products, and collecting significant quantities of unknown compounds in the food and pharmaceutical industries for subsequent structural analysis.

Efficiency and precision are essential in purification workflows. Embracing automation can be a game-changer, streamlining your processes and delivering consistent, reliable results. The Nexera Prep Series revolutionizes the complete preparative processes with unique solutions such as MDAP, ASAPrep, UFPLC & Nexera UC Prep.

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Chiral Separations: Milligram to Metric Tonne Scale

M. V. Narendra Kumar T., Director- Knowledge Management and Tech Support, Daicel Chiral Technologies India, Hyderabad

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. Daicel's Immobilized CSPs has opened huge opportunities with regard to selectivity and solvent compatibility for chiral separations using LC, SFC and SMB. Chiral separation of samples with poor solubility was well addressed with the help of immobilized chiral columns. Typically, prep HPLC and prep SFC techniques are commonly employed in quick separation of few milli gram to Kg scale to support drug discovery and development activities. Batch chromatography system consisting of Process scale LC with DAC columns are capable of separating the racemates in the range of multi-Kg to multi hundred Kg scale, whereas SMB is an efficient tool for commercial production of chiral drugs in multi hundred Kg to metric ton scale. In summary, chiral chromatography is integral part of drug discovery to commercial production of chiral drugs.



Scaling Up of Purification of a Diverse Range of Molecules: Advancements in Chromatographic Techniques

Kandukuri Nagesh Kumar, Associate Director - Application Lab, YMC India Pvt. Ltd., Hyderabad

This session delves into the fascinating world of purifying critical molecules that drive different sectors.

Discover the latest purification techniques for APIs and intermediates, whether they're chiral or achiral. We'll focus on how these techniques ensure safety and effectiveness in drug development. Dive into the world of proteins and their precise separation and purification, essential for groundbreaking research and applications in biotechnology.

We'll also take a closer look at streamlining the purification of carbohydrates, crucial components in the food and pharmaceutical industries. Additionally, we'll explore the purification of natural products and peptides, essential for developing bioactive compounds.

Throughout this journey, you'll see how innovative prep chromatography systems and various column chemistries are transforming purification processes. Don't miss this opportunity to gain insights into the latest purification techniques for these vital molecule categories. Join us for an informative exploration of the power of purification.



Process Chromatography: Scale Up Strategies and Solutions

Sandeep B. Kale, Chief Executive Officer, Sanovaskale Technologies Pvt. Ltd., Pune

These days, low, moderate and high pressure adsorptive and kinetic chromatography is successfully used for various applications capture, purification, concentration, desalting, salt formation etc. These applications are useful in API, natural products, peptide and proteins, sugars and oligosaccharide, nucleoside, antibiotics purification to separate structurally similar and dissimilar product and process impurities. Multiple strategies are possible and can be explored during developmental stage and then can be scaled up through strategic approach. Based on kinetic or thermodynamic case of process scale chromatography, a scale up strategy needs to be decided with specific and key objectives

to make it a successful scale up. At Sanovaskale, we have developed specific strategies for scale up of process chromatography and have applied them successfully at commercial scale. The process chromatographic hardware or system design and automation also plays a crucial role and a case study based on technological aspects and hardware will be discussed in the talk.



A New Generation Silica for Peptide Purification

Olga Krivosheeva, Application Project Manager, Nanologica AB, Sweden

The rising incidence of diabetes and obesity globally is driving a huge demand for insulin, GLP-1 analogues, and other peptides. However, the manufacturing of these drugs is intricate and purity requirements for the final product are very tight. Chromatography is a key technology for purification of peptides with complex impurity profiles in downstream processing. The quality of silica used for the chromatography is of fundamental importance for an efficient purification of the peptide, which is dictated by an optimized process for the manufacturing. Nanologica's new generation silica-based chromatography media NLAB Saga® has been especially developed to withstand the conditions used in industrial scale peptide purification by chromatography. It has a large available surface area, high ligand density, and narrow pore size distribution. This, combined with controlled particle size and particle size distribution, results in a silica with a high loading capacity and low back pressure. Finally, challenging purification of crude insulin sample demonstrates superior properties of NLAB Saga®.



Novel Stationary Phases for Improving Separation and Purification

Lalaso Mahind, Application Manager - Chromatography, Avantor Performance Materials Pvt. Ltd., Mumbai

Novel Stationary Phases for Improving Separation and Purification pertains to advancements in chromatography and purification techniques. It involves the development and use of innovative stationary phases to enhance the separation and purification of chemical compounds.



Sustainability and Green Technology Trends in Isolation of Chemical Constituents

Dileep Chandra Sreerama, Field Application Specialist (Chromatography), Buchi India Pvt. Ltd., Bengaluru

Early in the development phase, a “sustainable mind set” is necessary to ensure that the upcoming sub-processes could also meet requirements. This means that the design, validation, optimization, and scale-up steps follow the same principles regarding safety and toxic waste management and consider the green and sustainable aspects of the reaction and separation / isolation of target molecule to achieve the desired purity. Even if these issues are addressed, the separation of the reaction media and solvents used are necessary to a certain degree.

In R&D of new drug products with a greener process emphasis, a full understanding of the impact of chromatography in the discovery phase of drug development is crucial. With large quantities of small scale (<1000mg) separations typically evaluated and purified, a chromatographic technique needs to be easily integrated into workflows and readily robust. Integration of supercritical fluid chromatography (SFC) has allowed for increases in productivity, decreases in toxic/hazardous solvent consumption and a more green approach to chromatography.

The current talk is more discussion about the new techniques of SFC separation for the analysis and purification of mg-kg scale purifications that are routinely handled within discovery lab.



How Digitalisation and Lab Automation Help in Pharmaceutical and Biotechnology Industries

Raveendranath Govindaraj, Founder and Managing Partner, Lab Iconics Technologies LLP, Hyderabad

In the realm of laboratory management, integrating informatics systems is crucial for optimizing processes, data management, and decision-making. Join us as we explore the journey of digital transformation and role of Laboratory Informatics Management Systems (LIMS) in streamlining sample tracking, data analysis, and compliance. Discover how LIMS can enhance productivity, data integrity, and regulatory adherence, and learn best practices for implementation. Join the conversation and revolutionize your laboratory operations at Purify23!

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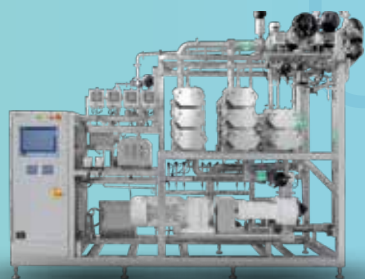
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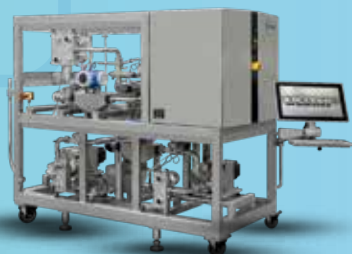
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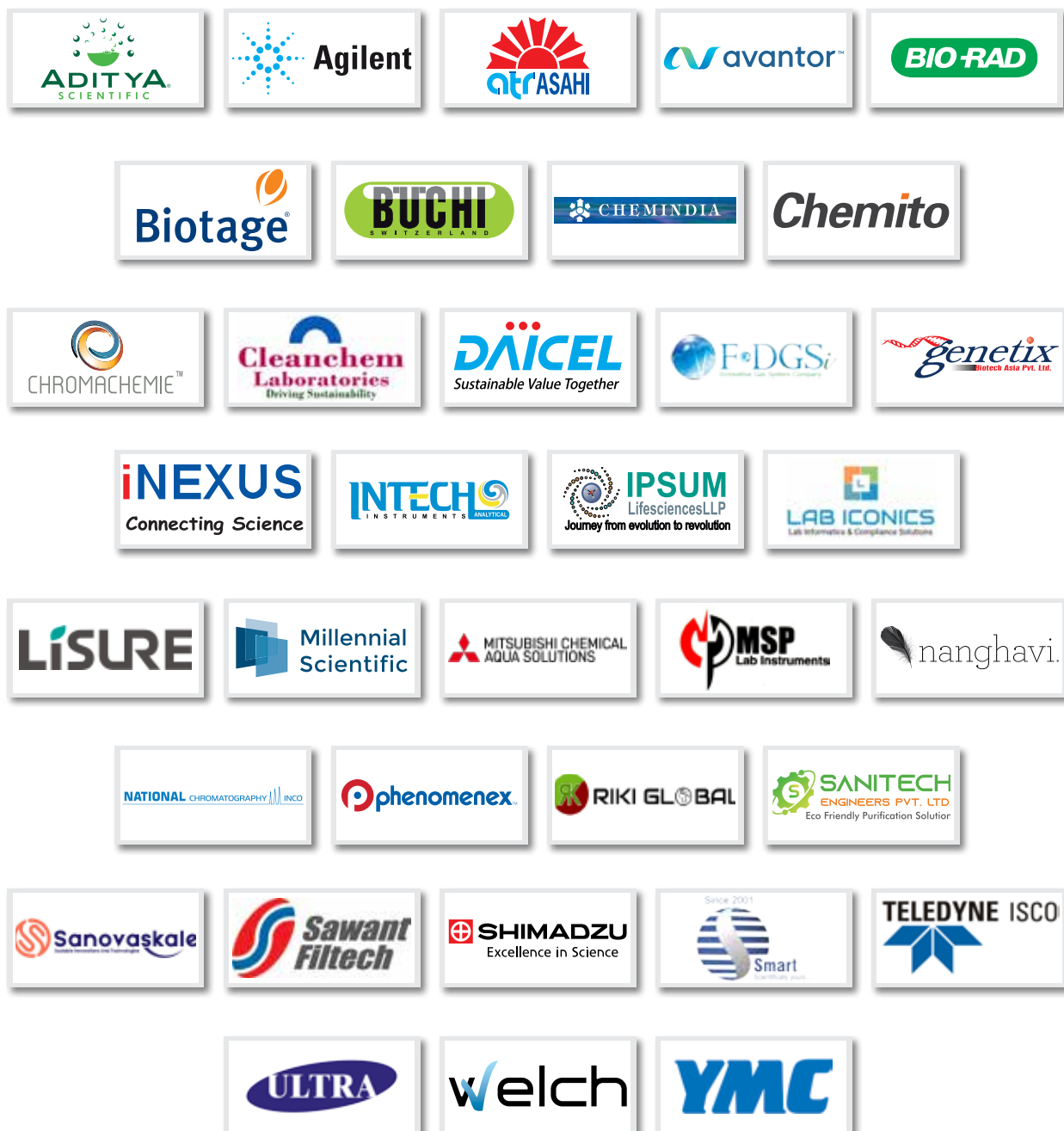
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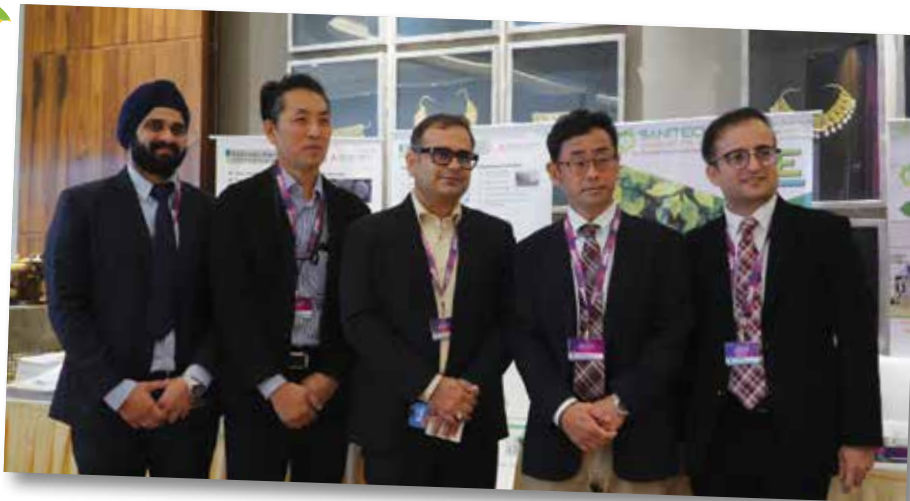
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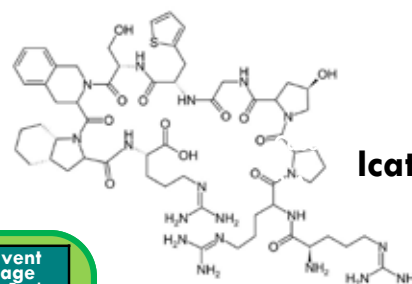


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Mid-size molecule API purification example : ICATIBANT

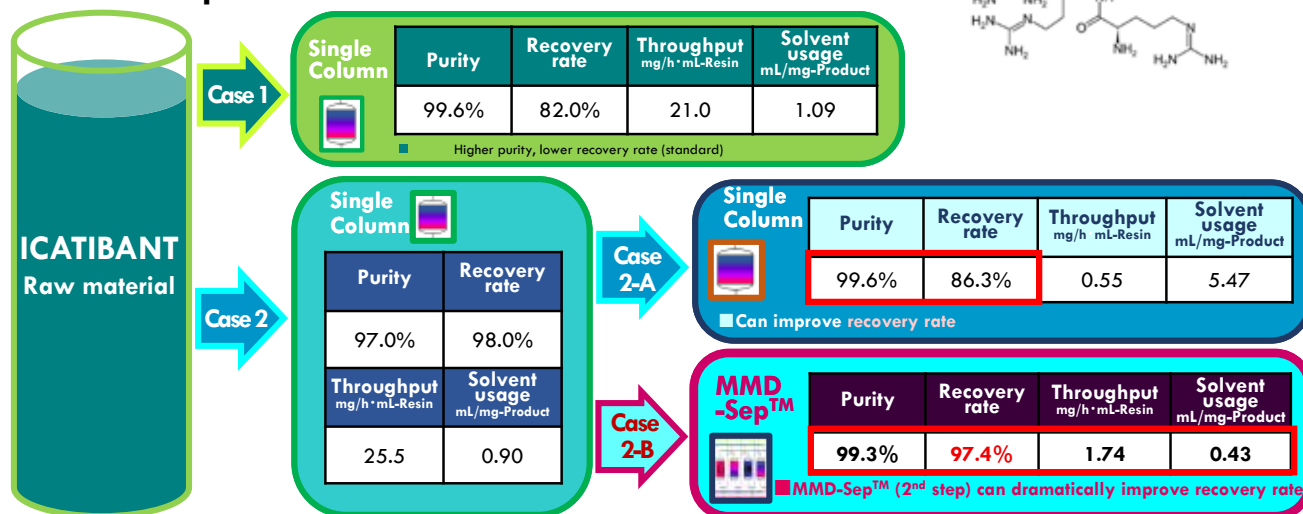
Icatibant

- 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

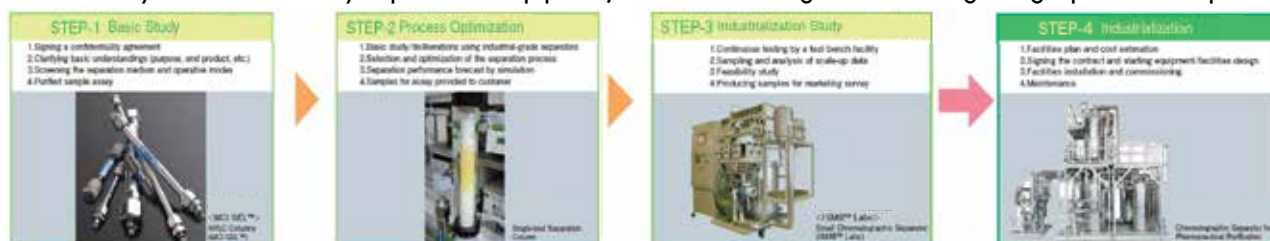
Case 2-B using MMD-Sep™ continuous chromatographic separator



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

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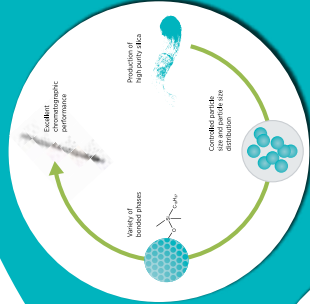
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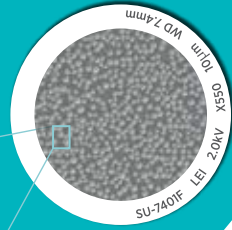
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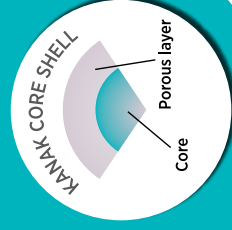
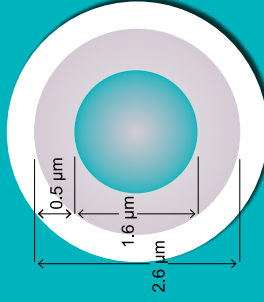
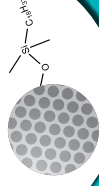
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KEY FEATURES

- Ligand coverage 3.6 µmol/m
- d90/d10 < 1.5
- N_{0.5} (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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FEEDBACKS

AND MORE...

51



I feel, time management and selection of content and speakers was the best part of the event.

Aishwarya S.

Research Associate,
N2 P2 Inc.

Very good networking and sharing of knowledge about purification was the highlight of this PURIFY!

Ashok Tukaram Chaudhari

Associate Director – Analytical Research,
Emcure Pharmaceutical Ltd.

Arrangement is excellent Manish!
Coordination was great to hear & be aligned.

Ashutosh Sharma

Assistant Vice President,
Sun Pharmaceutical Industries Ltd.

Networking is the best opportunity for me at PURIFY'23.

Brice Herve Sarraill

Managing Director,
SFE Process

At PURIFY, you will get all diverse chromatography knowledge under a single umbrella.

Dadasaheb Jadhav

Associate Principal Scientist - CRO AR&D,
Laxai Life Sciences

The best thing about PURIFY'23 was the structure of the programme.

M V Narendra Kumar Talluri

Director- Knowledge Management
and Tech Support, Daicel Chiral
Technologies (India) Pvt. Ltd.

To know the application of various chromatographic techniques in a day & get literature & contacts was the best at PURIFY!

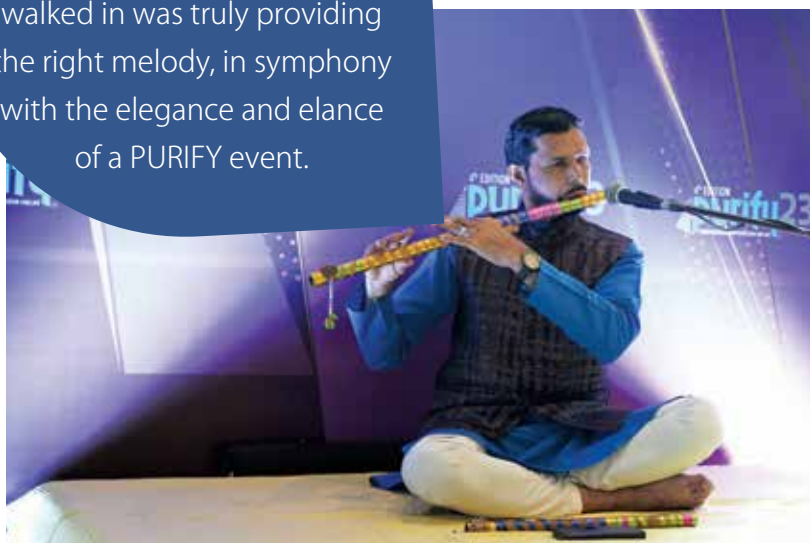
Vivek B. Khare
Managing Director,
Polypeptide Laboratories Pvt. Ltd.

Quality and diversity of speakers and the panel discussion on oligonucleotides were the best things of PURIFY'23!

Subramanian S. Iyer
Technical Director,
Smart Labtech Pvt. Ltd.

Warmth **Personified!**

Another first! Live performance as the attendees walked in was truly providing the right melody, in symphony with the elegance and elance of a PURIFY event.



I had a fantastic experience at the PURIFY'23 event! The organisation, speakers and overall atmosphere were top-notch. I got valuable insights and met wonderful people. Overall a good event.

Lalaso Mahind
Application Manager - Chromatography,
Avantor Performance Materials
India Pvt. Ltd.

PURIFY'23 is focussed and well managed.

Amit Lad
Chromatography Manager - India,
Fuji Silysia Chemical S. A.



A Digital Podium!

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

Every single speaker is an institution and has shown a new path into the future of purification.

Chandra Mouli Batthula

Research Scientist - I,
Laurus Labs Ltd.

Case studies using various chromatographic techniques presented by YMC was good.

Thangarasu Ponnusamy

Principal Scientist,
Alembic Pharmaceuticals Ltd.

The event is very informative. It provides a great opportunity for all of us to enhance our knowledge of analytical tools.

Subhadeep Basu

Deputy Manager,
Jodas Expoim Pvt. Ltd.

The right Stakeholders are participating in PURIFY. This will result in a better ecosystem in separation and purification.

Narender Kumar

Assistant Manager,
Mitsubishi Chemical Aqua Solutions

Peptide purification using Improved SMB was the best part of PURIFY'23!

Ramesh Pawar
Apicore Pharmaceuticals Pvt. Ltd.

Exposure to the latest analytical solutions and techniques was the best part of this edition of PURIFY!

S. Srimurugan
Principal Scientist-I,
Apitoria Pharma Pvt. Ltd.

The selection of the topic, nice and comfortable ambience was great at PURIFY'23!

Purnendu Roy Chowdhury
Vice President - Analytical,
TCG Lifesciences Pvt. Ltd.

The panel discussion on oligonucleotides process chromatography, scale up strategies & solutions was the best part of the event.

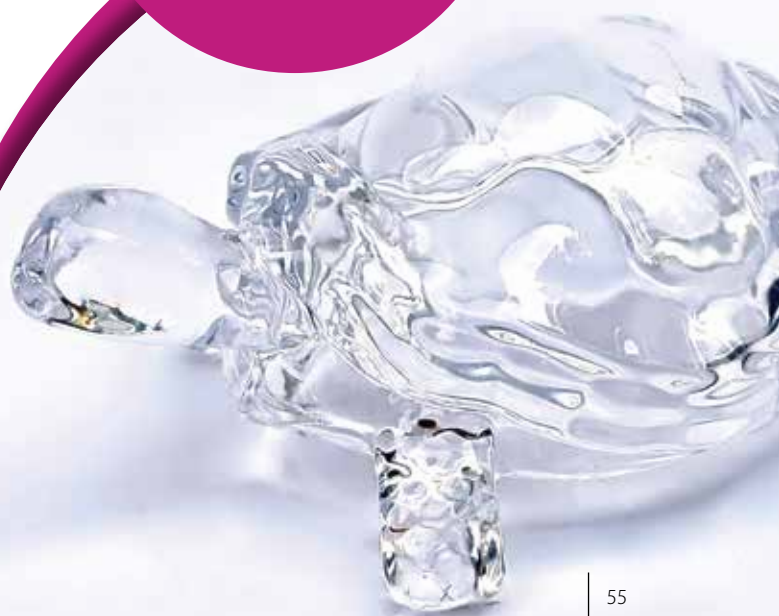
Atul Harshe
Director - Production,
Polypeptide Laboratories
Pvt. Ltd.

Specificity of topics and involvement of senior leadership of Custage are the best parts of the event.

Satyajeet Tillu
General Manager and
Site Head - Peptides,
Piramal Pharma Solutions

Beyond **Business**

At PURIFY'23 along with providing 'Knowledge', we wish you wealth, prosperity and positive energy!



PURIFY'23 is about good networking opportunity to meet all the purification experts.

Dileep Chandra Sreerama
Field Application Specialist
(Chromatography),
Buchi India Pvt. Ltd.

Networking with distinguished individuals working on innovative technologies was the best at PURIFY'23.

Smita Kale
Director,
Sanovaskale Technologies
Pvt. Ltd.

Oligopeptide purification presentation was the best for me at PURIFY'23.

Gopikrishna Yenduri
Principal Scientist-Analytical,
Sai Life Sciences Ltd.

New ideas and discussion have given hope for the best possibilities for better purification.

Narayana Prasad Kappala
Senior Manager,
Sun Pharmaceutical
Industries Ltd.

LUCKY
DRAW
WINNERS!

It's not about luck favouring the brave, it's finally about attending the PURIFY Conclaves! It's exciting right till the end! Best brands in its category are chosen 'dil se' to be handed over to the 'lucky ones' at the event in a manner that the industry lauds!



Chandra Mouli Bathula, Research Scientist - I, Laurus Labs Ltd. (extreme right) wins the Mega Prize, presented by Jyoti Chawla (left), while Katkam Srinivas looks on.



M. Suresh Kumar, AR&D - Preparative, MSN Laboratories Pvt. Ltd. (right) is all smiles when he wins his prize, presented by Raveendranath Govindaraj, Founder and Managing Partner, Lab Iconics Technologies LLP, Hyderabad (left).



Tommy Hilfiger
Trolley Bag



Amazon
Fire TV Stick

The venue is very good
and event organisation is
also very good.

Sambasivarao Vattikuti
ACG-COM-LSS Global Sales,
Agilent Technologies India Pvt. Ltd.

Lecture of Andreas Bhagwani
was the most insightful
with respect to concept to
commercialization and the
best part of PURIFY'23.

Bhavin Patel
Chief Executive Officer,
Ipsium Lifesciences LLP

I feel networking,
new additions in
stall / companies, new
products was excellent
at PURIFY'23!

Manjunath Dudhanikar
Sales Lead,
M R Sanghavi & Co.

PURIFY23 was a
very informative
event.

I. Kizar Ahamed
Group Leader - 1,
Aurigene Oncology Ltd.



Shiva Shyam, General Manager, YMC India Pvt. Ltd. (right) is joyous on receiving his prize, presented by Katkam Srinivas, Sr. Vice President, Global Head, Sales & Marketing - API, MSN Laboratories Pvt. Ltd., Hyderabad (left).



Pravin Gawand, R & D Manager, Chemtron Science Laboratories Pvt. Ltd. (right) receives his prize from M. Damodharan, Chief Quality Officer, Global Quality & Regulatory Affairs, Sai Life Sciences Ltd., Hyderabad (left).



Dadasaheb Jadhav, Associate Principal Scientist - CRO AR&D, Laxai Life Sciences (left), a proud winner; the prize is presented by Muralidharan Chandrakesan, Associate Vice President, Auropeptide Ltd., Hyderabad (right).



Victorinox
Swiss Army Knife



JBL
Vibe 200TWS True
Wireless Earbuds



Infinity Harman
Bluetooth Speaker

The best thing about PURIFY'23 was that we met focused customers related to purifications.

Malladi Srinivas
Chief Scientific Officer,
Chromachemie Laboratory
Pvt. Ltd.

Networking opportunities for meeting all the pharma people at one place was best at Purify'23.

Md. Mahamood
Director,
DSP Instruments Pvt. Ltd.

Stall and speakers to me were standout this PURIFY'23!

Shyam Kanda
Senior Manager,
USP India

The scientific fraternity and meeting at one glance was great at PURIFY'23.

Sukesh Tadakapally
Country Head - Sales & Service,
Aditya Scientific

Event management, co-ordination, overall planning and implementation was excellent this PURIFY!

Priyanka Vijay Kankate
Operation Manager,
Millennial Materials And
Devices India Pvt. Ltd.

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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!

The best part of the event was the presentation from L. K. Rao about the 2000 mm DAC column.

Hima Prasad Naidu
Associate Director - I,
Mylan Laboratories Ltd.

Mainly focussed on prep purification, they justify the name 'Purify'.

Varun Gupta
Director,
YMC India Pvt. Ltd.

PURIFY always exceeds our expectations. It provides the best networking opportunities.

Prashant Shetkar
CEO,
N2 P2 Inc.

Bringing new technologies at one place with expert explanations was the best part of PURIFY'23!

Babu Reddy G.
Senior Scientific Manager,
Aragen Life Sciences Ltd.

A badge that signifies knowledge, business and being a part of the elitist group of the most discerning 'purification chromatographer'!
A symbol of prestige!



Great networking opportunities with insights related to our work.

Jyotiranjana Parija
Manager,
Biological E Ltd.

Met all combi flash purification clients and visitors at one place.

Sathish Burra
Area Manager,
Septech Marketing LLP

Well Organised! The interaction with each team helpful.

Rohitkumar Yadav
Senior Manager - 2,
Sun Pharmaceutical Industries Ltd.

I think this is good platform to know about preparative techniques.

Pallerla Satish Kumar
Senior Scientist - I,
Apitoria Pharma Pvt. Ltd.

Pre-event communication was excellent. The registration process was smooth.

Sujay Basu
Associate Director,
Eurofins Advinus

PURIFY'23 covered and touched each part of purification.

Nitin Bansode
Senior Research Investigator
(Oligonucleotides / Dc),
Syngene International Ltd.

Networking was the best part of PURIFY'23!

Satish Sawant
Head Distribution,
Nouryon Chemicals India Pvt. Ltd.

The agenda is the best thing about PURIFY'23!

Raj Kiran Ch
Field Marketing,
Phenomenex India Pvt. Ltd.

Process scaleup chromatography strategies and process development optimisation and scaleups, were good topics at PURIFY'23.

Prakash Challa

Deputy Manager,
Virchow Biotech

Meeting all chromatography community under one umbrella was excellent at PURIFY'23.

Onkar Santan

Scientific Manager,
Biocon Ltd.

Networking with extended industry and development of knowledge was best at PURIFY'23!

Omika Sharma

Managing Director,
Shreetech Associates

PURIFY is all about bringing people in chromatography purification under one roof.

Narendra Dabburi

Director,
Lisure Science (Suzhou) Co., Ltd.

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.



Best part of the event was to know about SFE/SFC upgraded chromatography.

Anindya Das
Advinus

Got to know the thought process of the purification community and recent trends.

Anurag Trivedi
Vice President API - Analytical,
Lupin Ltd.

Venue and organisation is too good.

Murali Arumugam
Syngene International Ltd. (BBRC)

PURIFY'23 was a great place to interact with delegates and vendors under one platform. I appreciate, team PURIFY for organising this great event.

Mahendra Reddy N.
National Manager - Technical Sales and Service, Santai Technologies Inc.

Good information about techniques & sharing knowledge with each other was good too!

Ramisetti Ganesh
Associate Scientist,
Aragen Life Sciences Ltd.

One of the star attractions at the event was the 'Wall of Fame', which acknowledged the 70+ speakers who have stood on the 'PURIFY Dais' thus far and shared their vision and experience, helping to elevate the laurels achieved by chromatography purification to newer heights.



Diwali Wishes!

Now, that's something PURIFY would never miss...an opportunity to wish all its stakeholders. With Diwali just round the corner then, PURIFY resorted to an indulgent way to wish every participant by distributing delicacies such as Balushahi and Doodh Saffron Peda on each table! We were overwhelmed at this opportunity!



PURIFY'23 was all about less time more exposure.

Sadhan Parial
Managing Partner,
Ultra Fine Chem & Inst

Nice seminar for learning new things.

M. Suresh Kumar
AR&D - Preparative,
MSN Laboratories
Pvt. Ltd.

The content of the event is specific, all lectures are on specific subjects only.

Pravin Gawand
R & D Manager,
Chemtron Science
Laboratories Pvt. Ltd.

Content was current, and speakers were engaging.

Madhu Uttamsingh
Designated Partner,
Hemmo Pharma LLP

Organising, and the experience is the best thing of PURIFY'23!

G. R. Rajesh
Managing Director,
National Chromatography Inco

Meeting all who's who in chromatography technology, to me, is the best aspect of PURIFY'23!

Nileshkumar Badani
Managing Director,
Sanitech Engineers Pvt. Ltd.

The SMB purification presentation by Knauer and the Daicel presentation, to me were the best part of the event.

Shiva Kumar S.
Chemveda Life Sciences Pvt. Ltd.

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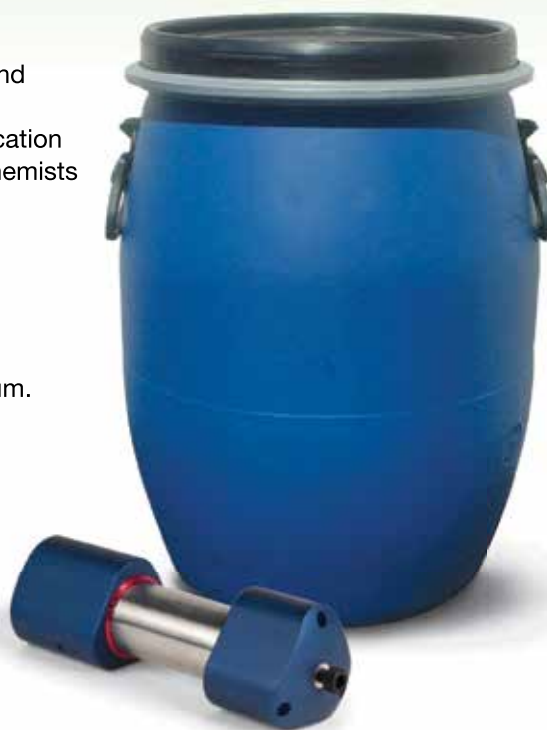
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- Proof of concept purification method development Tech Notes



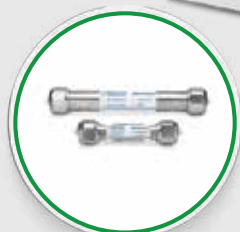
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New Method Development

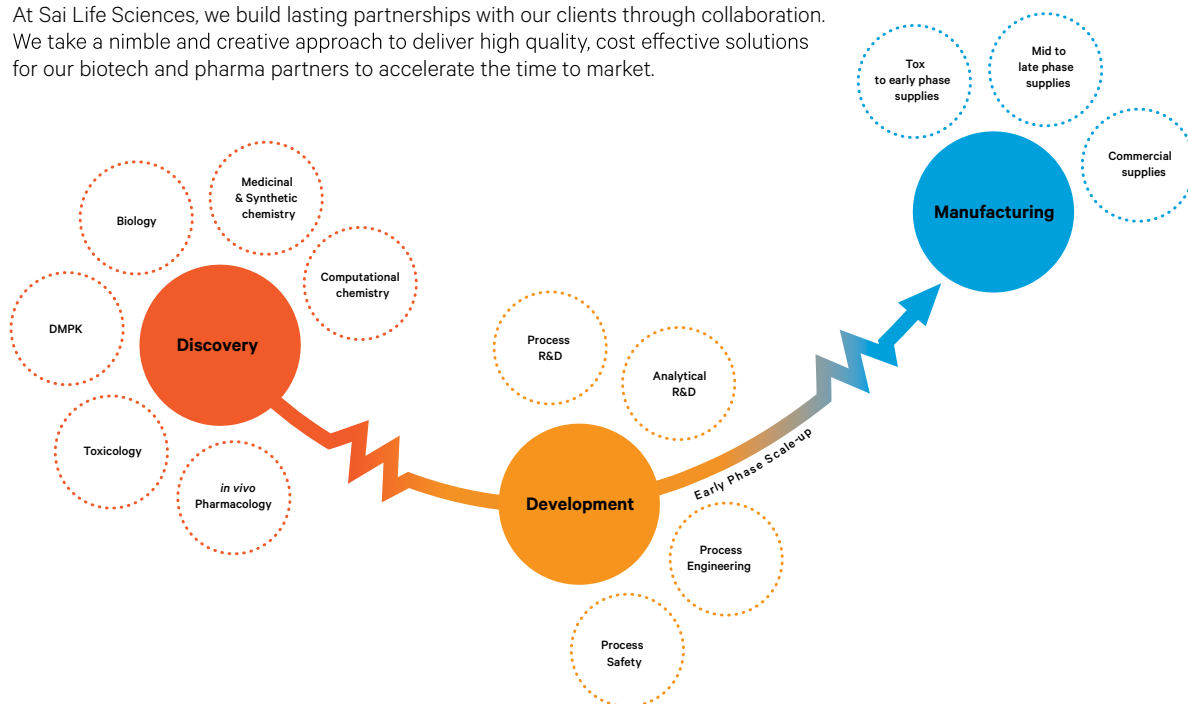
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- Automatic data capture, Containment



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- Containment level of 1 $\mu\text{g}/\text{m}^3$
- 11 Clean Rooms of ISO – 8
- Amidites block
- HPAPI (0.1 $\mu\text{g}/\text{m}^3$) capability
- Lyophilization at pilot & commercial scale
- High pressure block
- Chromatography at commercial scale
- Cryo reactions at 2.5 KL, 4 KL & 5 KL scale



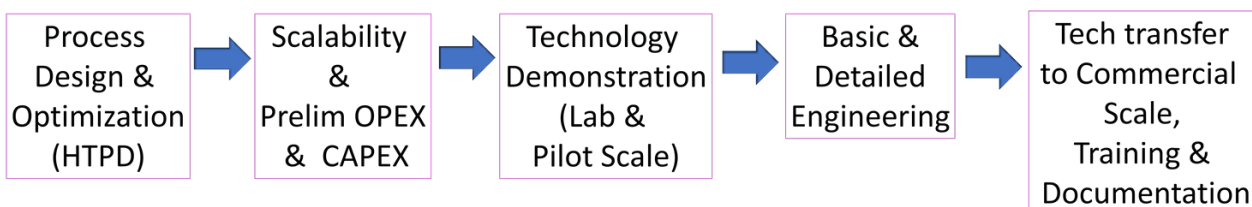
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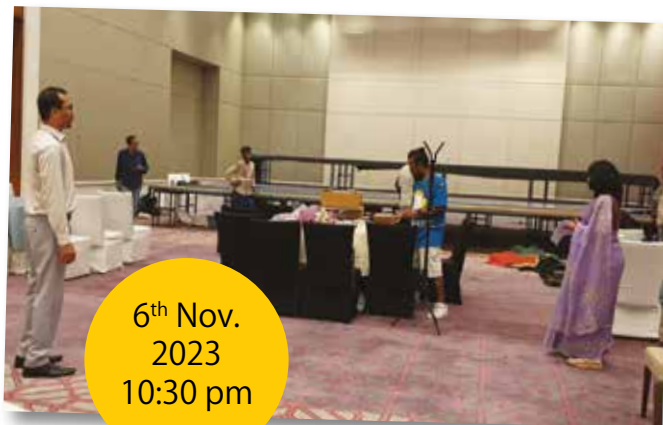


VISUAL

TOUR

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!



6th Nov.
2023
10:30 pm



6th Nov.
2023
11:45 pm



7th Nov.
2023
2:50 am



3rd Nov.
2023
12:35 pm



5th Nov.
2023
10:40 am



7th Nov.
2023
3:40 am



7th Nov.
2023
4:45 am



7th Nov.
2023
2:10 am



7th Nov.
2023
5:15 am



7th Nov.
2023
1:25 am



7th Nov.
2023
5:45 am

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





Crowning Glory

The hour dawned, unveiling of PURIFY'23 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.



Jayesh Ranjan, I.A.S.,
Principal Secretary, Information
Technology (IT) & Industries
and Commerce (I&C),
Government of Telangana



Andreas Bhagwani
CEO,
Nanologica AB,
Sweden



Sambasivarao Vattikuti
ACG-COM-LSS Global Sales,
Agilent Technologies,
Hyderabad



Birger Holz
Senior Business Development
Manager Asia, KNAUER,
Germany



Piotr Kesicki
International Sales Manager,
SFE Process,
France



L. Koteswara Rao
Managing Director,
Intech Analytical Instruments,
Hyderabad



Sandeep B. Kale
Chief Executive Officer,
Sanovaskale Technologies Pvt. Ltd.,
Pune



Olga Krivosheeva
Application Project Manager,
Nanologica AB,
Sweden



Tokumaru Izuru

Division Manager, Director of
the Board, Mitsubishi Chemical
Aqua Solutions, Japan



Khaled S. Mriziq

Senior Global Product Management
Manager, Process Chromatography,
Bio-Rad Laboratories, USA



Charles MY Lim

Director - International Business,
Lisure Science (Suzhou) Co. Ltd.,
China



N. Hari

Technical Director,
Inexus Biotech Pvt. Ltd.,
Chennai



Arie Kant

Managing Director,
Sykam GmbH,
Germany



Brice Sarraill

Managing Director,
SFE Process,
France



Navin Devadiga

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



M. V. Narendra Kumar T.

Director- Knowledge Management
and Tech Support, Daicel Chiral
Technologies India, Hyderabad



Kandukuri Nagesh Kumar

Associate Director - Application Lab,
YMC India Pvt. Ltd.,
Hyderabad



Lalaso Mahind

Application Manager -
Chromatography, Avantor
Performance Materials Pvt. Ltd.,
Mumbai



Dileep Chandra Sreerama

Field Application Specialist
(Chromatography),
Buchi India Pvt. Ltd.,
Bengaluru



Raveendranath Govindaraj

Founder and Managing Partner,
Lab Iconics Technologies LLP,
Hyderabad

Panel Discussion

Importance of Investing in Right Technologies - Imperative for Business Growth



Madhu Utamsingh

Designated Partner, Hemmo Pharma LLP,
Mumbai



Ankur Vaid

Joint Managing Director & CEO,
Concord Biotech Limited, Ahmedabad



Moderator: **M. Damodharan**

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



E. K. Lee

Professor Emeritus, Dept. of Bionano
Engineering, HanYang University Erica,
Korea



Raghavendra Goud Vaggu

Exec-Director,
PharmNXT Biotech, Pune



Ravdeep Singh Anand

Chief Executive Officer,
Hanugen Therapeutics Pvt. Ltd.,
Bengaluru;

Panel Discussion **Demystifying the Complexity of Oligonucleotides Business**



Nitin Bansode

Senior Research Investigator
(Oligonucleotides / DC),
Syngene International Ltd., Bengaluru



Moderator: **Satyanarayana Kota**

Director-Technical,
Devi Pharmatech Pvt. Ltd., Hyderabad



For Thought Provoking Leadership in
Chromatography Purification



Katkam Srinivas

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



Muralidharan Chandrakesan

Associate Vice President, Auropeptide
Ltd., Hyderabad

Panel Discussion **AI, a Disruptor / Enabler for the Pharma and Bio-pharma Industries**



M. Damodharan

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



Moderator: **Manish Chawla**

Managing Partner, Custage Marketing
Solutions LLP, Mumbai





The Light of **Knowledge**

The light of knowledge shared at PURIFY'23; Jayesh Ranjan, I.A.S., Principal Secretary, Information Technology (IT) & Industries and Commerce (I&C), Government of Telangana, adorned the event as the Chief Guest, as he hands over 'the light of knowledge' to Andreas Bhagwani, CEO, Nanologica AB, Sweden, who continues to be an ardent supporter of PURIFY Conclaves...Title Sponsor for the 3rd time in a row!

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!

























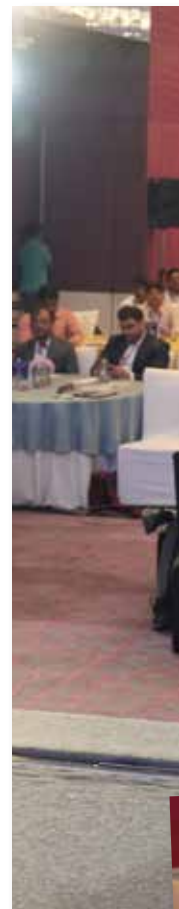


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PURIFY'23 came with something for everybody. The audience stayed right till the very end! The right speakers, the right topics, the right schedules, the timeliness of execution, all contributed to the rapt attention as knowledge was seamlessly flowing through the day for unparalleled enrichment.









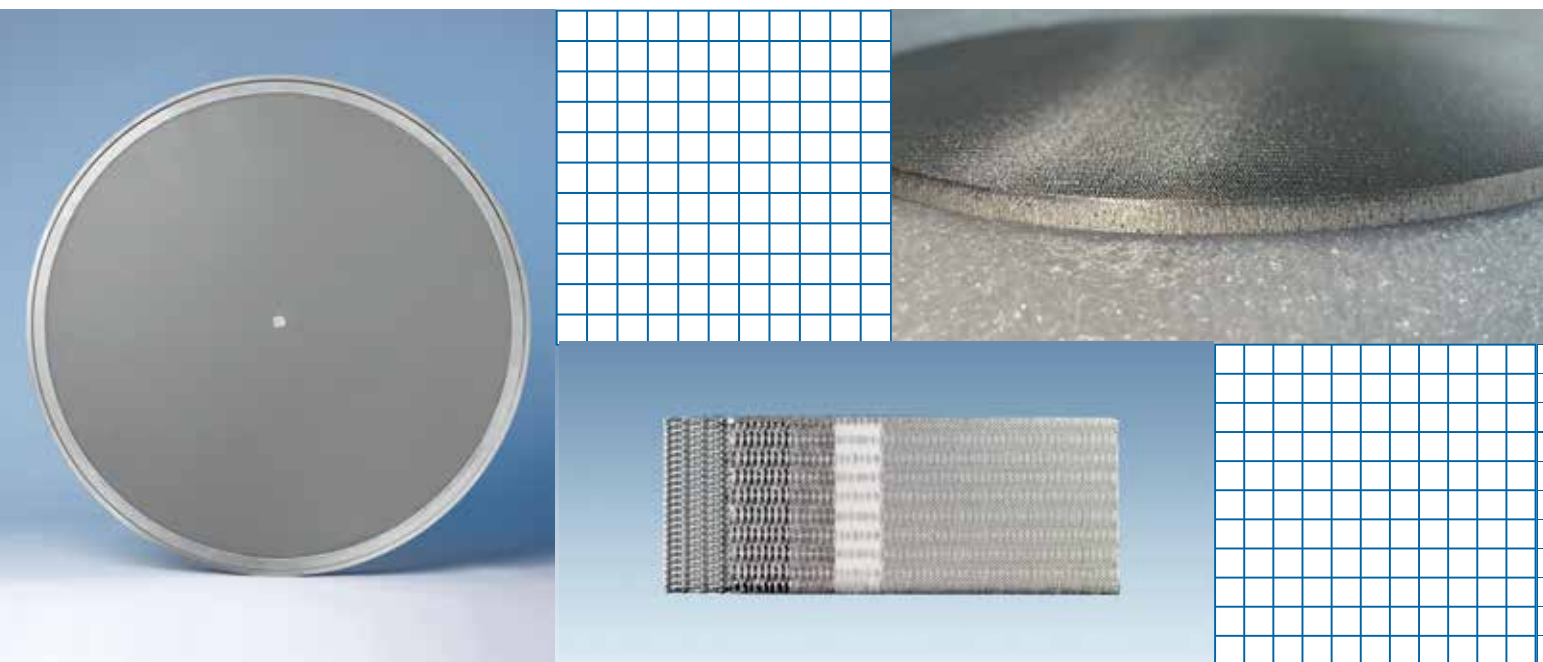








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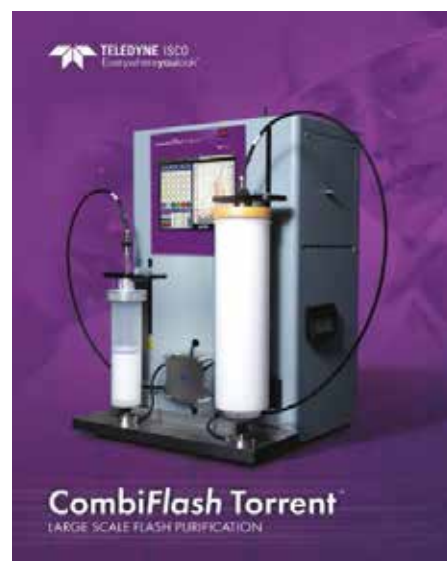
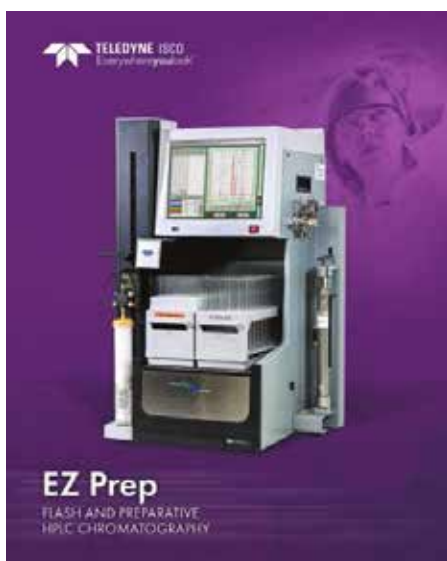
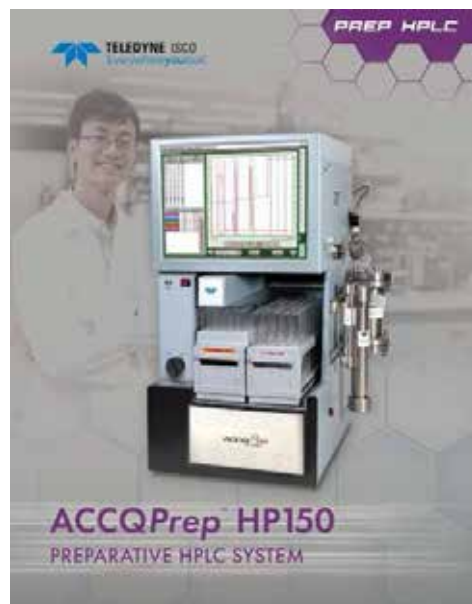
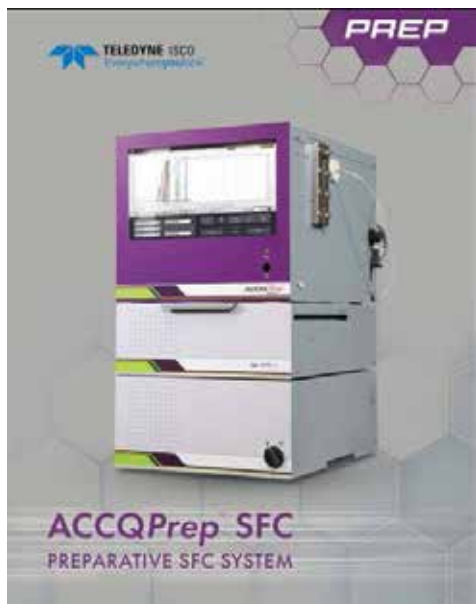
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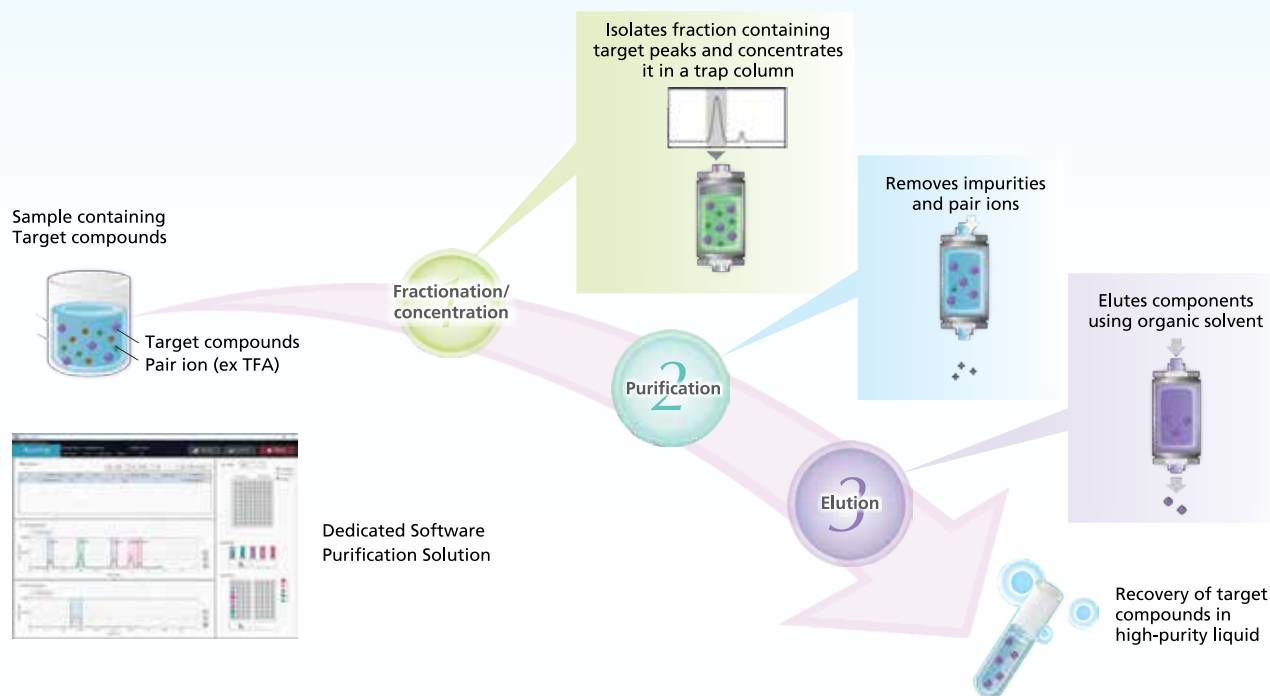
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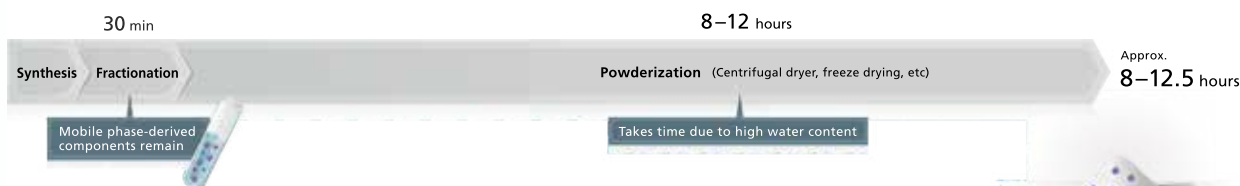
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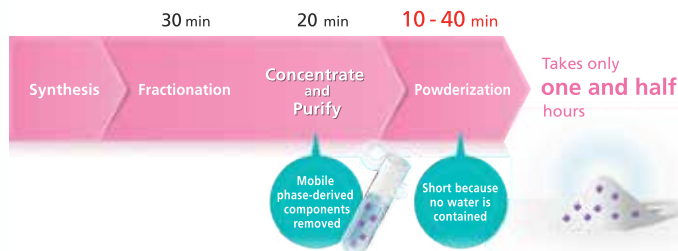
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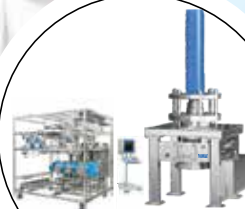
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