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APRIL 2026

CHROMATOGRAPHY Connect

Cutting-Edge Technologies in Chromatography Purification

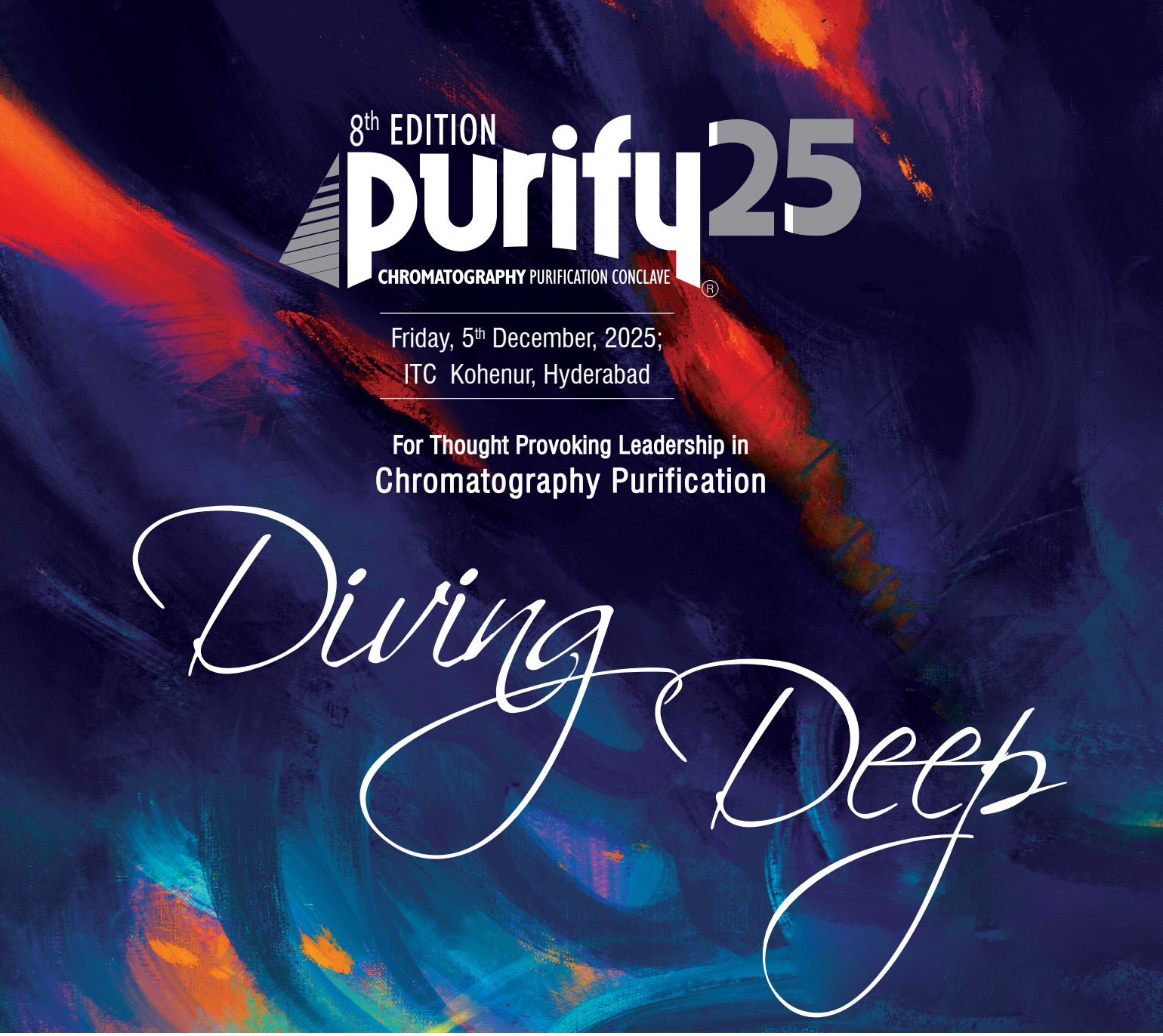


The Event Summarised

8th EDITION purify25
CHROMATOGRAPHY PURIFICATION CONCLAVE®

For Thought Provoking Leadership in Chromatography Purification

Friday, 5th December, 2025;
ITC Kohenur, Hyderabad



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CHROMATOGRAPHY Connect

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Numbers Crunched



348 Participants

29 Speakers

27 Sponsors

31 Display Zones

129 Companies

4 Countries

12 States

23 Cities

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'25!

For Thought Provoking Leadership in
Chromatography Purification



In Dialogue

Dear Chromatography Professionals,

This edition of PURIFY (5th December, 2025 at ITC Kohenur, Hyderabad); for me, personally, was the culmination of a strong conviction - the importance of preparative chromatography and the global impact of India in this industry - as a result, this edition was our biggest and perhaps the largest congregation for preparative chromatography, globally! Thank you for the unwavering support and trust you repose in the brand 'PURIFY'!

Why PURIFY? This is a question that we always ask ourselves.

- This helps us to stay relevant.
- This helps us add value to the content we serve to you.
- This helps us play our role in empowering our highly skilled professionals with path-breaking technologies, tools and best practices relating to chromatography purification!

As expected, peptides continue to be the light-post, while also posing challenges to meet market needs and with scale.

From the organiser's perspective, this year's gathering on chromatography purification struck a vibrant balance between substance and energy. It was designed to bring together the right mix of voices and ideas, creating space for thoughtful, forward-looking conversations - taking stock of where we stand in chromatography purification and exploring what lies ahead - while ensuring the experience extended well beyond the formal agenda.

We were especially encouraged to see how naturally the atmosphere came alive, with light-hearted moments, spontaneous exchanges, and a lively buzz along the sidelines adding an element of fun. At the same time, the event enabled meaningful business discussions, as participants engaged in practical, outcome-driven conversations around chromatography purification solutions, innovations, and real-world applications.

Creating strong networking opportunities was a key priority for us, and it was rewarding to see connections forming with genuine intent - whether during sessions or in more informal settings. Overall, it was fulfilling to witness ideas, relationships and tangible opportunities in chromatography purification come together in a way that truly reflected the purpose of the event.

We extend our sincere thanks to the advisory board, sponsors, delegates and partners for their invaluable support and contribution in making this event a success.



Manish Chawla
Custage Marketing Solutions LLP

Acclaimed **Advisory Board**



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CEO - API,
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Muralidharan Chandrakesan
Senior Vice President,
Peptide-Operations, Hetero Drugs Ltd.,
Hyderabad

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.



Rajiv Janjikhel
Executive Director,
Alliance Management
AbbVie, New Jersey



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Ph.D., MBA,
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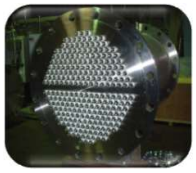


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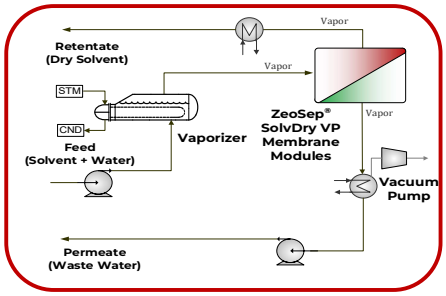

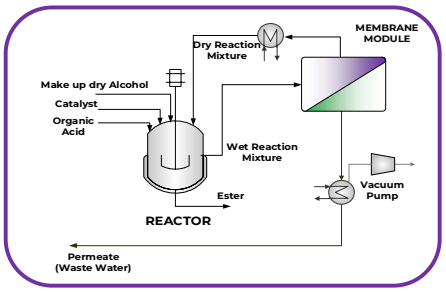

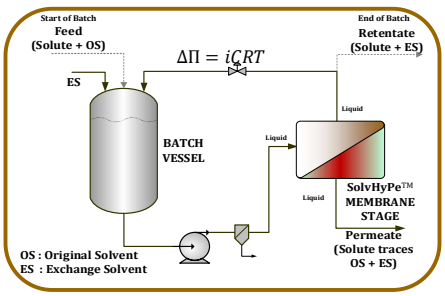

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VIVID CAMPAIGNS AND PROGRAMME 13

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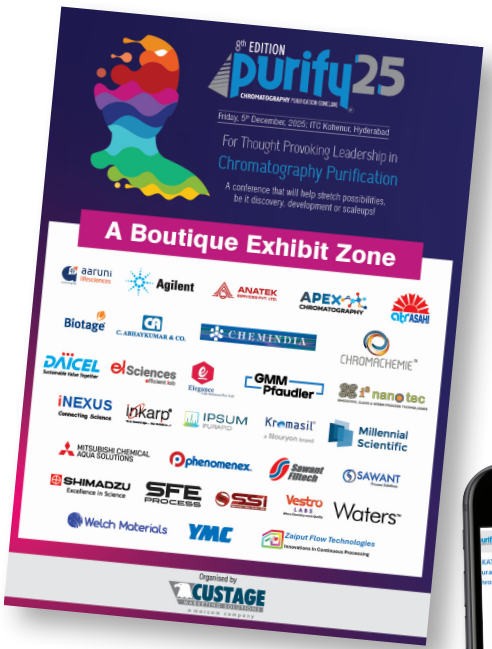






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I am delighted to deliver a talk at
Friday, 05th December, 2025
ITC Kohenur, Hyderabad
Timing: 8:45 am - 6:30 pm
Strategies for Efficient Purification of Single and Dual Receptor Agonists
A talk by
Dr. Fredrik Lime
Technical Development Manager - Kromasil, Nouryon, Sweden
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Programme

Never before a programme with such diversity of talks, coupled with depth of knowledge. Speakers from PAN India adorned PURIFY'25.

Timing	Presentation
8:00 am - 9:00 am	**Registration With Networking Breakfast & Tea / Coffee**
9:00 am - 9:20 am	Inauguration and Welcome Address Team Advisory Board and Manish Chawla
9:20 am - 9:35 am	Semaglutide Purification on Polymeric Adsorbent: Redefining GLP-1 Analogue Purification Beyond Silica-based RP-HPLC **Narender Kumar,** Deputy Senior Manager, Mitsubishi Chemical Aqua Solutions, Tokyo, Japan
9:35 am - 9:50 am	Not the Sharpest Tool in the Box (Probably) **Dr. Imre Sallay,** Daisogel Product Manager, Osaka Soda Co., Ltd., Japan
9:50 am - 10:05 am	Better Faster Stronger - How SFC can Change the Pharmaceutical Industry **Cyril CALATRAVA,** Head Sales & Business Development, SFE Process, France; **Jean-Christian HARTEMANN,** In Charge of Business Development India, SFE Process, Navi Mumbai
10:05 am - 10:20 am	Smart SPPS - A Scalable Solution for Precise Peptide Manufacturing **Beat Hüsler,** Managing Director, MAVAG AG, Switzerland; **Harshal Taori,** Deputy General Manager - Sales, Mavag, GMM Pfaudler Ltd., Mumbai
10:20 am - 10:45 am	Perspectives - TAG Assisted Peptide Synthesis (LPPS) **Dr. Dipak Kalita,** Senior Vice President - R&D (CDMO, Peptide, Oligos, ADCs), Shilpa Pharma Lifesciences Ltd., Karnataka; **Prof. Hosahudya N. Gopi,** Professor, Department of Chemistry, IISER, Pune
10:45 am - 11:15 am	**Networking Tea / Coffee Break**
11:15 am - 11:25 am	**Lucky Draw 1**
11:25 am - 11:40 am	Scalable Solutions for Complex Sample Purification **Prashant Nemmaniwar,** Product Manager, Waters India Pvt. Ltd., Bengaluru
11:40 am - 11:55 am	Strategies for Efficient Purification of Single and Dual Receptor Agonists **Dr. Fredrik Lime,** Technical Development Manager - Kromasil, Nouryon, Sweden
11:55 am - 12:10 pm	Membrane Enabled Molecular Separations (MOLSEP™) for Sustainable Production of APIs, Intermediates and Speciality Chemicals **Kota Satyanarayana,** VP - Process R&D, I Cube Nanotec India LLP, Noida; **Jatin Gupta,** Technology Marketing & Process Design Specialist, I Cube Nanotec India LLP, Noida
12:10 pm - 12:35 pm	Perspectives - Diving Deep Into Nitrosamine Purification **Dr. Vijaya Bharathi. D,** Sr. Vice President & Head, Analytical Solutions, Aragen Life Sciences Ltd., Hyderabad; **Puneet Rastogi**, General Manager & Head BD, Portfolio & Strategy - API Business, MSN Laboratories Private Limited, Hyderabad
12:35 pm - 12:50 pm	Advances in Downstream Processing for Large Molecule Therapeutics **Hideki Horio,** Senior Manager - Marketing, Shimadzu India Pvt. Ltd., Mumbai

Timing	Presentation
12:50 pm - 1:15 pm	Perspectives - Next-Generation Drug Conjugates: Overcoming Purification Frontiers; the Chemistry and Biology Approach **Partha P. Hazra,** Ph.D., R&D CoE Lead (Biotherapeutics), Full-Time Consultant, Biocon Biologics, Bengaluru; **Somesh Sharma,** PhD, MBA, Chief Operating Officer, Cohance Lifesciences Limited, Hyderabad
1:15 pm - 1:25 pm	Announcements
1:25 pm - 2:15 pm	**Networking Lunch Break**
2:15 pm - 2:25 pm	**Lucky Draw 2**
2:25 pm - 2:40 pm	Advanced Reverse - Phase HPLC Techniques for High-Purity Semaglutide: An Orthogonal Strategy **Dhanunjaya Naidu,** Business Development Manager, Phenomenex India Pvt. Ltd., Hyderabad
2:40 pm - 2:55 pm	CRDMO Strategies for Small Molecules and Peptides **Dr. G. Srinivasa Rao,** Ph.D., Director, YMC India, Noida; **Adiraju Sivasyam Sunder,** General Manager - Equipment Sales, YMC India Pvt. Ltd., Noida
2:55 pm - 3:10 pm	Seamless Peptide Production: Role of Intelligent Solutions - Synthesis to Lyophilization **Juzer Ekhlas,** Director, ATR Asahi Process Systems Pvt. Ltd., Vadodara
3:10 pm - 3:35 pm	Perspectives - AI / ML - Enhanced Decision Making **Dr. Sudarsan Kochu Govindan,** COO, Aizen Algo, Hyderabad; **M. Damodharan,** Chief Quality Officer, Global Quality & Regulatory Affairs, Sai Life Sciences Ltd., Hyderabad
3:35 pm - 3:50 pm	Fast and Selective Purification of Oligonucleotides - A Case Study **Sambasivarao Vattikuti,** Product Specialist - Liquid Chromatography, Agilent Technologies India Pvt. Ltd., Hyderabad
3:50 pm - 4:05 pm	Analytical Strategies for the Evaluation of Generic Oligonucleotide Drugs **Ravi Rapolu,** Ph.D., Technical Consultant, Daicel Chiral Technologies India Pvt. Ltd., Hyderabad
4:05 pm - 4:15 pm	Announcements
4:15 pm - 4:45 pm	**Networking Tea / Coffee Break**
4:45 pm - 4:55 pm	**Lucky Draw 3**
4:55 pm - 5:20 pm	Perspectives - Flow Chemistry Transformations in Peptide Manufacturing **Dr. Srividya Ramakrishnan,** Global Head - CDMO DS, Aurigene Pharmaceutical Services Ltd., Hyderabad; **Dr. Amol A. Kulkarni,** Chief Scientist and Head, Chemical Engineering and Process Development Division, CSIR - National Chemical Laboratory, Pune
5:20 pm - 5:45 pm	Perspectives - Smart Fraction Analysis: Turbocharging Peptide Purification With Advanced PAT **S. Sethumadhavan,** Chief Operating Officer, Plasmagen Biosciences Pvt. Ltd., Karnataka; **Muralidharan Chandrakesan,** Sr. Vice President, Peptide-Operations, Hetero Drugs Ltd., Hyderabad
5:45 pm - 5:55 pm	Felicitation
5:55 pm - 6:05 pm	Announcements
6:05 pm - 6:15 pm	**Lucky Draw 4**
6:15 pm Onwards	A Stand-up Show! **Angad Singh Ranyal** - Live
Followed by Networking Cocktails & Dinner	

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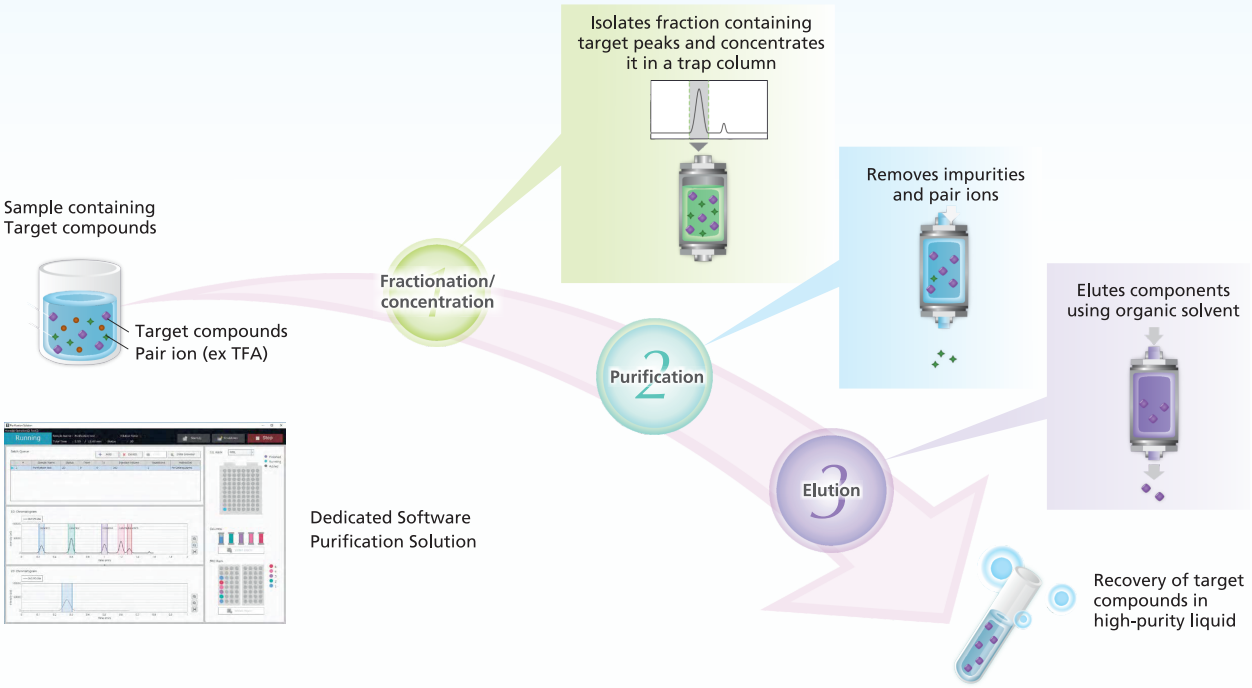



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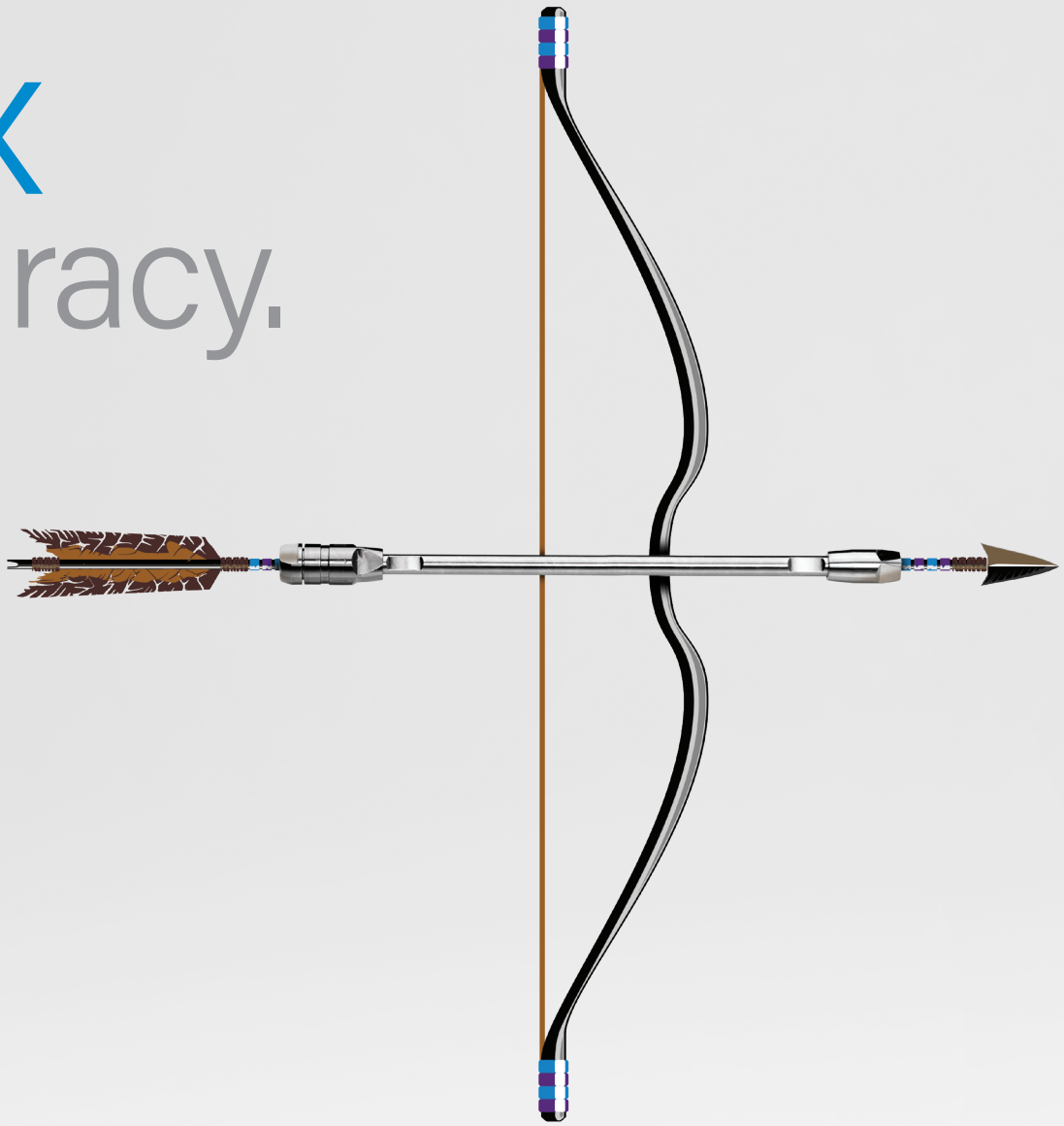

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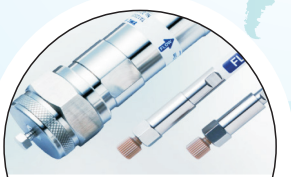
Packing materials for chromatography



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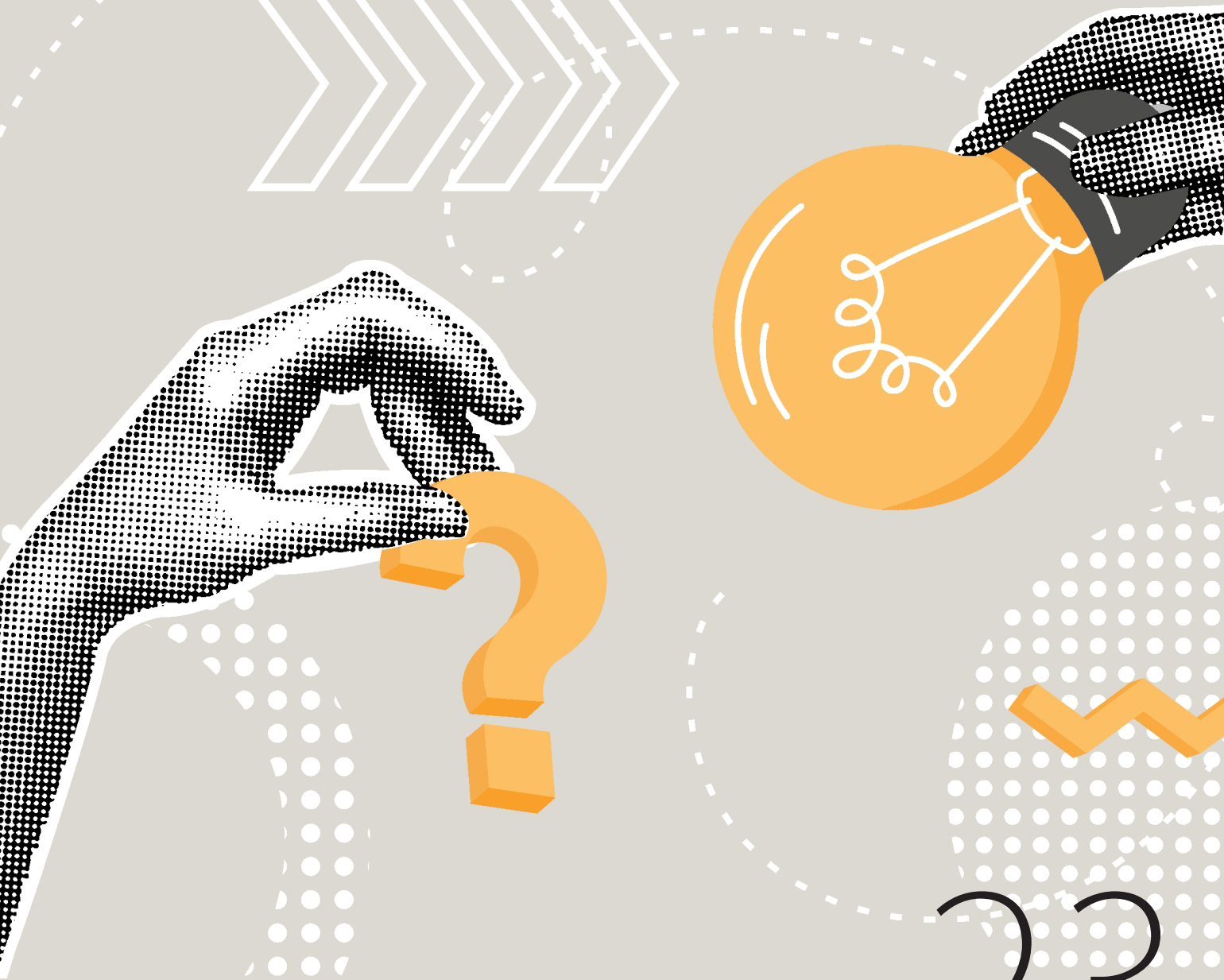
8th EDITION purify25 CHROMATOGRAPHY PURIFICATION CONCLAVE

ABSTRACTS

IN-SHORTS



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Semaglutide Purification on Polymeric Adsorbent: Redefining GLP-1 Analogue Purification Beyond Silica-based RP-HPLC

Narender Kumar
Deputy Senior Manager,
Mitsubishi Chemical Aqua Solutions, Tokyo, Japan

MMD-Sep ™ is a novel continuous chromatography system designed for mid-size API, such as Peptides/GLP-1 analogues production, achieving significant increases in recovery rates, while minimizing solvent consumption. By incorporating advanced Polymeric stationary phase, MMD-Sep™ enhances the efficiency and sustainability of peptide manufacturing. This technology not only streamlines the purification process but also addresses the growing need for environmentally friendly manufacturing practices. Realtime monitoring and automation features ensure optimized performance and reproducibility, making this system ideal for industrial scale peptide production. The implementation of our continuous chromatography approach demonstrates the potential to transform peptide production, offering substantial benefits in both resource utilization and output quality!!

Not the Sharpest Tool in the Box (Probably)



Dr. Imre Sallay
Daisogel Product Manager,
Osaka Soda Co., Ltd., Japan

The traditional division between clean, easy to purify synthetic peptide processes and recombinant peptide purification (always messy, treacherous and complicated) just disappeared due to great advances in synthetic technology and the science behind.

The surge of the GLP-1 peptide projects is unprecedented.

Bitter truth is against being synthetic molecules the impurity profile differs by each process. It is extremely difficult to separate peptides that differ only in a few atoms. The purification specialists need more tools to try and see which works best for each challenge.

Previously the CHROMATOGRAPHY COMPASS concept was presented. Now we have the ver. 2 of the noble kit (now we can do what we originally wanted 4 years ago!).

New phases will be introduced and offered for trial.

Promises would be deceptive; we cannot say that these new alternative phases will do a better job than the conventional ones. But there is a deliciously enticing possibility thatt hey will!

Better Faster Stronger - How SFC can Change the Pharmaceutical Industry

Cyril CALATRAVA
Head Sales & Business Development, SFE Process, France;



Jean-Christian HARTEMANN
In Charge of Business Development India, SFE Process, Navi Mumbai

Supercritical Fluid Chromatography (SFC) is as a high-performance, cost-effective, and environmentally sustainable alternative to HPLC for purifying APIs and natural molecules. By using supercritical CO_2, SFC reduces solvent consumption by up to 90%, increases productivity, and prevents thermal degradation of sensitive compounds such natural extracts. Combined with innovations in selective CO_2 solubilization and scalable equipment from lab to industrial production, SFC offers a robust solution for modern purification challenges. The partnership between SFE Process, and Sanitech Engineers enables industrial deployment in India with reliable, export-compliant technology.

Smart SPPS - A Scalable Solution for Precise Peptide Manufacturing

Beat Hüsler
Managing Director, MAVAG AG, Switzerland



Harshal Taori
Deputy General Manager - Sales, Mavag, GMM Pfaudler Ltd., Mumbai

As the global demand for therapeutic peptides surges, efficient and scalable manufacturing solutions are critical. This presentation introduces our advanced peptide synthesizer technology, engineered for seamless scale-up from lab to commercial production. Designed with precision, automation, and compliance in mind, our system ensures high purity and consistency—meeting the rigorous standards of pharmaceutical industries. Attendees will gain insights into how our synthesizer empowers faster time-to-market, flexible batch sizes, and robust process control, making it an ideal solution for commercial peptide manufacturing.

Scalable Solutions for Complex Sample Purification



Prashant Nemmaniwar
Product Manager,
Waters India Pvt. Ltd.,
Bengaluru

In the dynamic and increasingly complex landscape of pharmaceutical and biopharmaceutical development, the purification of advanced therapeutic modalities—such as peptides, oligonucleotides, and genetic compounds—requires high precision, scalability, and operational efficiency. This presentation introduces **Waters Premier OBD Preparative Columns, featuring High-Performance Surfaces (HPS) Technology,** as a transformative solution in preparative chromatography.

These columns are engineered to overcome the persistent challenge of **non-specific adsorption (NSA),** enabling reliable scale-up and enhanced recovery of interaction-prone molecules. With the ability to detect and isolate low-level compounds confidently, scientists benefit from reduced workflow complexity and minimized need for column conditioning.

Powered by **Prep OBD Technology,** Waters' proprietary column design and packing process ensures uniform bed density, delivering consistent performance across both UPLC and preparative environments. The result is superior **purity, yield, and reproducibility,** making these columns ideal for high-throughput laboratories and process development teams focused on next-generation therapeutics.

Strategies for Efficient Purification of Single and Dual Receptor Agonists



Dr. Fredrik Lime
Technical Development Manager -
Kromasil, Nouryon, Sweden

GLP-1 receptor agonists (GLP-1 RAs) are key peptide therapies for diabetes and obesity treatment, with commercially available single and dual RAs such as Liraglutide, Semaglutide, Tirzepatide, and many other next generation dual and triple agonists in the development pipelines. These synthetic peptides feature various modifications, such as amino acid substitutions, linkers and hydrocarbon side chain, that extend the drug's half-life and regulate drug release. Large-scale purification process usually involves multiple steps, accounting to a significant percentage of total manufacturing costs. Robust and efficient purification strategies are therefore essential to obtain the required purity of the target API peptide at the desired recovery.

Preparative reverse phase chromatography remains the primary method for the purification of APIs, reaching >99.5% purities even at high analyte concentrations. However, a bottleneck in scaling these purifications is the formation of aggregates, gels or fibrils that adhere strongly to the stationary phase, compromising column performance over

time. To ensure consistent purification results, stationary phases should withstand the rigorous cleaning-in-place (CIP) protocols required for the large-scale biopharmaceutical manufacturing.

We present a robust, cost-effective purification strategy based on preparative reverse phase chromatography, optimized through mobile phase tuning and stationary phase screening. Our purification strategy includes an improved mild CIP step that significantly extends column's cycle life to reduce the total operational costs. This approach enables scalable purification of both single and dual GLP-1 receptor agonists, and its readily adoptable for future GLP-1 RAs, supporting the delivery of next-generation peptide therapeutics.

Membrane Enabled Molecular Separations (MOLSEP™) for Sustainable Production of APIs, Intermediates and Speciality Chemicals

Kota Satyanarayana
VP - Process R&D,
I Cube Nanotec India LLP,
Noida

Jatin Gupta
Technology Marketing &
Process Design Specialist,
I Cube Nanotec India LLP,
Noida



Founded in 2003 by Mr. Manish Goel, I Cube Nanotec India LLP and i3 Nanotec LLC (USA) have been offering their innovative MolSep™ Molecular Separation Technologies to global clients in Life Sciences, Specialty & Fine Chemicals and other sectors.

GLP drugs are poised to reach a market size of 100 Billion dollars by 2030 as forecasted by a leading market research company. Insulin & Insulin biosimilar markets are growing, and therapeutic oligonucleotides are expected to grow significantly. For the majority of GLP drugs, solid phase synthesis, followed by multiple steps of chromatography and lyophilization are established as the process for manufacturing. Though significant efforts have been made to optimize the usage of DMF & ACN, the process solvent intensity index remains in the 300-500 per AA range. This is a major contributing factor to the high production costs of GLP drugs due to escalating virgin solvent and spent solvent disposal costs. Additionally, the low concentrations of the GLP drug substances and residual solvents like ACN & Methanol used in chromatography result in high energy consumption in lyophilization. This presentation is on the application of the ICN MolSep™ (Molecular Separations) technology portfolio for sustainable manufacturing of TIDES and insulins, with a special focus on GLPs. ICN technology encompasses Volopure™ pervaporation and vapor permeation (Zeosep® & PolyGSep) combined with conventional mass transfer operations that greatly mitigate the challenges encountered by recovery of solvents for reuse. Our SolvHype™ Organic Solvent Nanofiltration (OSN) systems are used for non-thermal concentration and residual solvent removal from the GLP drug substance. CAPEX & OPEX of these systems is such that ROI is attractive while simultaneously reducing the carbon footprint of GLP production by over an order of magnitude. ICN also offers MAREX™ Membrane Reactor for in-situ removal of water in equilibrium reactions.

Advances in Downstream Processing for Large Molecule Therapeutics



Hideki Horio
Senior Manager - Marketing,
Shimadzu India Pvt. Ltd., Mumbai

The biopharmaceutical industry is currently navigating a paradigm shift, from large-scale bulk production to agile, multiproduct manufacturing, including biologics, gene therapies, and personalized medicines. This shift demands purification technologies that are not only high-performance, but also flexible, scalable, and cost-efficient. Sepragen delivers on this need with an integrated portfolio of chromatography and bioprocess solutions, designed to meet the full lifecycle of drug development and manufacturing.

Central to Sepragen's offering is the QuantaSep® system family, a compact, automated multi-use & single-use chromatography platforms that combine high throughput with ease of operation. These systems drastically reduce laboratory footprint, streamline workflows, and support rapid scale-up from lab to clinical or commercial production.

This presentation highlights a clear understanding of how integrated solutions empower Drug Discovery and CDMO companies to optimize purification workflows, accelerate time-to-market, and achieve robust, scalable, and compliant production of complex biologics.

Advanced Reverse - Phase HPLC Techniques for High-Purity Semaglutide: An Orthogonal Strategy



Dhanunjaya Naidu
Business Development Manager,
Phenomenex India Pvt. Ltd., Hyderabad

Semaglutide, a GLP 1 analogue essential for treating type 2 diabetes and obesity, is produced through fermentation or solid phase peptide synthesis, processes that generate structurally similar impurities requiring high resolution purification. Its sensitivity to pH variations further complicates purification, as even minor changes can affect stability and chromatographic performance, driving up cost and technical demands. While many companies have relied on two step purification using C18 and C8 phases, an advanced orthogonal strategy employing phenyl phase reversed phase liquid chromatography (RP-LC) offers a more robust solution. By performing sequential purifications on the same phase with tailored mobile phase compositions and pH buffers, this approach elevates peptide purity from ~50% to over 99%, optimizes yield, reduces purification costs, and ensures reproducibility and scalability, providing a practical pathway for large scale manufacturing of high purity semaglutide.

CRDMO Strategies for Small Molecules and Peptides

Dr. G. Srinivasa Rao, Ph.D.,
Director,
YMC India, Noida



Adiraju Sivasyam Sunder
General Manager - Equipment
Sales, YMC India Pvt. Ltd., Noida

Contract Research, Development, and Manufacturing Organizations (CRDMOs) have become pivotal partners in the pharmaceutical and biotechnology industries, particularly in the development of small-molecule therapeutics and peptide-based drugs. To remain competitive in a rapidly evolving market, CRDMOs employ integrated business strategies that emphasize end-to-end service models, technological innovation, regulatory excellence, and flexible manufacturing capacity. For small molecules, strategies focus on high-throughput process chemistry, advanced analytical platforms, continuous manufacturing, and cost-efficient scale-up. Peptide-focused CRDMOs differentiate through specialized solid-phase and hybrid synthesis technologies, capabilities for complex modifications, and expertise in handling challenges such as long-chain aggregation, purity optimization, and GMP-compliant large-scale production. The collaborations expect to deliver faster, more reliable and more cost-effective pathways from discovery through commercial manufacturing in the expanding markets for small-molecule and peptide therapeutics. The global expansion of peptide therapeutics has increased the need for agile, high-quality CRDMO partnerships capable of accelerating development while ensuring purity, scalability, and regulatory compliance.

YMC India occupies a unique position in this ecosystem by serving as a purification-focused CRDMO collaborator, leveraging decades of YMC's global chromatography leadership. With advanced hybrid-silica stationary phases, process-scale RP-HPLC systems, and Dynamic Axial Compression (DAC) column technology, YMC India delivers efficient and reproducible purification—a critical challenge in peptide manufacturing. Its dedicated application lab enables rapid method development, impurity synthesis-profiling, and scale-up studies that support seamless transition from milligram R&D samples to kilogram-level production. Combining technical rigor with India's cost advantage and strong documentation practices, YMC India helps global peptide developers reduce timelines and improve batch quality. As biotechs diversify beyond traditional manufacturing hubs, YMC India offers a compelling collaboration model centered on purification excellence, transparency, and phase-appropriate support.



Seamless Peptide Production: Role of Intelligent Solutions - Synthesis to Lyophilization

Juzer Ekhlas
Director, ATR Asahi Process Systems
Pvt. Ltd., Vadodara

Fast and Selective Purification of Oligonucleotides -A Case Study



Sambasivarao Vattikuti
Product Specialist - Liquid Chromatography,
Agilent Technologies India Pvt. Ltd., Hyderabad

I'll be presenting a case study on the fast and selective purification of oligonucleotides. I'll also talk about Agilent's biocompatible solutions for purification and Automation in the purification workflow to minimize rework. In addition, I'll cover column chemistries that allow seamless scaling from analytical to preparative levels, ensuring smooth and efficient method upscaling.



Analytical Strategies for the Evaluation of Generic Oligonucleotide Drugs

Ravi Rapolu, Ph.D.,
Technical Consultant,
Daicel Chiral Technologies India Pvt. Ltd., Hyderabad

Evaluating generic oligonucleotide drugs poses unique challenges compared to small-molecule drugs due to their complex structural hierarchy. Demonstrating equivalence to the Reference Listed Drug (RLD) requires a comprehensive set of analytical techniques to confirm both primary and higher-order structures.

High-resolution mass spectrometry (HRMS), nuclear magnetic resonance (NMR), ultraviolet (UV) spectroscopy and circular dichroism (CD) are essential for assessing structural integrity. Aggregation behaviour is effectively evaluated using size-exclusion chromatography coupled with multi-angle light scattering (SEC-MALS). Melting Temperature (Tm) is measured by ultraviolet (UV) spectroscopy or differential scanning calorimetry (DSC). Functional equivalence is further confirmed through cell-based bioassays.

Among these techniques, NMR plays a central role. Advanced 1D and 2D experiments—such as ^{31}P NMR, HSQC, DOSY, and NOESY—provide valuable insights into molecular conformation, dynamics, and intermolecular interactions. Chemometric methods, including principal component analysis (PCA), Mahalanobis distance (Dm values), and combined chemical shift difference (CCSD), enhance the robustness of sameness assessments.

Oligonucleotides, owing to their high molecular weight and structural complexity, present unique challenges in purification and impurity profiling. To address these complexities, a combination of chromatographic techniques is typically employed. Anion-exchange chromatography (AEX) and hydrophilic interaction liquid chromatography (HILIC) are widely used, while one- and two-dimensional approaches such as ion-pair reverse-phase (IPRP) chromatography coupled with HILIC provide enhanced resolution and deeper characterization of impurity profiles.

Daicel Chiral Technologies India offers extensive expertise in oligonucleotide therapeutics, providing comprehensive characterization and sameness studies for generic oligonucleotide drugs. Further, Daicel offers process development and tech-transfer package and full range of high-quality oligonucleotide impurity standards to accelerate oligo drug development. Operating from a US-FDA-inspected facility, Daicel enables faster regulatory submissions.

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Scan for more details on Applications



Key Benefits

- ➢ Modular & Scalable Solutions – Tailored from R&D to production scale (mg to 10Kg).
- ➢ High Purity & Recovery – Optimized solvent gradients, precise fractionation.
- ➢ Automation & Software Control – Gilson TRILUTION® LC for method development, data handling, and regulatory compliance.
- ➢ Integration-Ready – Seamlessly integrates detectors and auxiliary systems.
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Supercritical Fluid Chromatography (SFC) Systems

The preparative SFC system is used for large scale purification using columns with I.D.s of 10 mm, 20 mm and 30 mm. The system can be used for multiple sample library purification or individual component large-scale purification, with sample injection either using a preparative autosampler or syringe based large volume injector.



Scan for more details on Applications

Key Benefits

- ✓ Fast Response Back Pressure Regulator
- ✓ Wide Range of Detectors
- ✓ Flexible (All SFC systems can be used for HPLC)
- ✓ Integrated Modular System
- ✓ Compatible with most Mass Spectrometers
- ✓ Flexible Configurations Analytical / Semi-Preparative / Preparative SFC System

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The CD-4095 is a unique HPLC CD detector for measuring circular dichroism developed from the market leading J-Series circular dichroism spectropolarimeters. Optically active compounds with a chromophore close to a chiral centre may absorb circularly polarized light, which can be detected with excellent sensitivity and selectivity. When chiral compounds are - enantiomers cannot be distingmeasured using a UV-Visible detector, the d- and luished even when separated by a chiral column, however the CD-4095 CD detector makes it possible to positively distinguish between the d- and l- enantiomers by measuring their positive and negative peaks.



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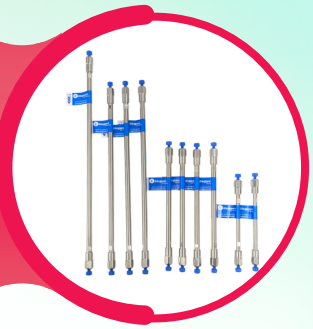

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Inkarp is the Authorised India Partner for Rotachrom CPC. ***With 40 years in life science instrumentation,*** we support your CPC journey—from evaluation to training to deployment.

Purifying Semaglutide—Economically. Efficiently. Exceptionally.

CPC Modeler



Semaglutide, a breakthrough GLP-1 receptor agonist transforming diabetes and obesity treatment, presents major purification challenges due to its complex structure and high impurity load.

But what if your downstream process could be simplified—and made significantly more economical?

The RotaChrom CPC Breakthrough

Centrifugal Partition Chromatography (CPC) is a liquid–liquid separation technique that provides a smarter, scalable, and cost-effective alternative for semaglutide purification.

Key Advantages

- No solid stationary phase – reduces cost and increases recovery
- Gentle separation – preserves molecule integrity
- Broad pH compatibility – stable in acidic and basic conditions
- Dual-mode operation (DSC–ASC–DSC) – enhances selectivity
- Ideal for separating structurally similar impurities

Performance Snapshot

Parameter	Value
Crude Purity	75–80% Semaglutide
Final Purity	>97% (HPLC-DAD @254 nm)
Yield	~80%
Runtime	80 minutes
Input Load	900 mg in 10 mL solvent
System	Benchtop CPC (250 mL rotor)

Why Choose CPC for Semaglutide?

- Replaces multiple RP-HPLC steps
- Avoids precipitation near isoelectric point
- Simplifies impurity handling for complex profiles

Applications:



Pharmaceutical R&D



Peptide Drug Manufacturing



GLP-1 Production Facilities

"CPC enables high-purity semaglutide at lower cost and greater efficiency—without compromising yield."

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Aaruni Lifesciences Pvt. Ltd.

Aaruni Lifesciences Pvt Ltd established in 2021 by a team of professionals with collective experience in project management, mechanical design, quality assurance, and bioprocesses for **mAbs**, vaccines, plasma, and **rDNA** proteins. The company is dedicated to the vision of a Atmanirbhar Bharat (Self-reliant India)

Our Vision is to be the “Best in class” partner in the Therapeutic Industry surrounded by our values which are derived from “Panchatatva” Universe (Akash), Air (Vayu), Fire (Agni), Water (Jal), and Earth (Prithvi)

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AND MORE...

ARRANGEMENT AND CONTENT WERE BOTH GOOD AT PURIFY!

MAHESH DATTU WAGHMARE
LEAD INVESTIGATOR 1
ALEMBIC PHARMACEUTICALS

PURIFY CONTINUES TO DELIVER EXCEPTIONAL VALUE TO CHROMATOGRAPHY SCIENTISTS CONSISTENTLY INTRODUCING EXCITING THEMES THAT SPARK CURIOSITY AND ENGAGEMENT. I AM CONFIDENT THAT ATTENDEES ARE GAINING VALUABLE INSIGHTS INTO ADVANCED TECHNOLOGIES THAT CAN BE APPLIED TO THE MANUFACTURE OF HIGH-QUALITY PHARMA PRODUCTS.

VASANTHAKUMAR RAMU
VICE PRESIDENT, HEAD API R&D-PEPTIDES AND COMPLEX GENERICS
ALEMBIC PHARMACEUTICALS LTD.

PURIFY IS ABOUT CONNECTING THE PURIFICATION SCIENTISTS ON A SINGLE PLATFORM.

ANUPRAJ KESHAV
PRINCIPAL SCIENTIFIC MANAGER
ARAGEN LIFESCIENCES

DIVING DEEP INTO NITROSAMINE IMPURITIES WAS THE BEST AT PURIFY'25.

RAMU GALIPALLI
GROUP LEADER
ALEMBIC PHARMACEUTICAL LIMITED

PURIFY IS AN ENCOURAGING SCIENTIFIC SEMINAR.

SRINIVAS RAO PAKAKAPATI
PRINICIPAL SCIENTIST MANAGER
ARAGEN LIFE SCIENCES

RP CHROMATOGRAPHY ADVANCEMENTS WAS THE BEST PART OF PURIFY!

KATHIRAVAN ASOKAN
DIRECTOR
ARAGEN LIFE SCIENCES PVT. LTD.

THE TECHNICAL SESSIONS AT PURIFY PROVIDED & DELIVERED KNOWLEDGEABLE TOPICS

VV RAVICHANDRA REDDY
PRINCIPAL SCIENTIST
ARAGEN LIFESCIENCES

Convenience **Personified**

At PURIFY, it's always about getting a bit more!
This time was a utility that allowed unparalleled convenience of using your laptop!
Flexibility to meet your needs!



"IT WAS NICE TO HEAR CHROMATOGRAPHIC FOCUSED DISCUSSIONS."

ONKAR SANTAN
ASSOCIATE GENERAL MANAGER
AMNEAL PHARMACEUTICALS

"TO ME, METHOD DEVELOPMENT OF PEPTIDE PURIFICATION AND THE TROUBLESHOOTING ASPECTS WERE THE BEST AT PURIFY'25."

B. RAMAKRISHNA YADAV
ANALYTICAL SPECIALIST
DRL

"IT'S A GREAT PLACE FOR NETWORKING AND KNOWING EACH OTHER IN OUR SEGMENT."

JYOTIRANJAN PARIJA
SENIOR MANAGER
BIOLOGICAL E. LIMITED

"THE CONCEPT OF PERSPECTIVES WAS THE HIGHLIGHT AT THIS PURIFY!"

B. RAJASHEKAR
RESEARCH SCIENTIST
VTIDES LIFE SCIENCES

"THE PERSPECTIVE TALKS WERE VERY INTERESTING WITH THE MUCH VARIED VIEW POINTS ON VAST TOPICS BUT STILL QUITE RELATED."

TABAN SALAM
PROCESS ENGINEER
AURIGENE PHARMACEUTICALS

"PURIFY IS ABOUT A TARGETED SET OF CUSTOMERS & GROUPS."

ALN MURTHY
CHIEF EXECUTIVE
CHEMINDIA



The Big **Bag!**

The bag got a facelift and its share of appreciation.
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.

"TO ME, THE BEST PART OF PURIFY WAS KNOWLEDGE SHARING SESSIONS FEATURING NATIONAL AND INTERNATIONAL EXPERTS ON SMALL MOLECULES PURIFICATION AND ITS SCALEUP."

RAVI CHANDRA NEELA
ASSISTANT MANAGER
BIOLOGICAL E. LIMITED

"PURIFY'25 PROVIDED VALUABLE INFORMATION ABOUT PEPTIDES."

Y. RAMESH
DIRECTOR
CHIROCHEM

"PURIFY IS A GOOD PLATFORM FOR CONNECTING AND KNOWING ABOUT DEVELOPMENT IN PURIFICATION PROCESS."

MALLADI SRINIVAS
CHIEF SCIENTIFIC OFFICER
CHROMACHEMIE

"PURIFY WAS A WELL ORGANIZED THE EVENT COVERED AND THE IMPORTANT TOPICS WHICH WERE USEFUL TO THE PHARMACEUTICAL INDUSTRY."

B. MADHUSUDAN REDDY
SR. GM
COHANCE LIFE SCIENCES

"OVERALL PRESENTATIONS WERE GOOD AT PURIFY'25."

SRINIVAS SURYAPETA
HEAD - R&D
VTIDES LIFE SCIENCES

"THE CONTENT OF THE EVENT WAS GREAT."

PRAKASH V.
PLANT HEAD
DRL

"PURIFY IS A CLASSICAL PERFECTION IN EXECUTION OF THE EVENT, RIGHT FROM THE COMMUNICATION, FOLLOW-UP, QUALITY OF THE VENUE, FOOD, AND IMPORTANTLY, NETWORKING!"

APPARAO BOMMAKANTI
ASSOCIATE DIRECTOR - ANALYTICAL CHEMISTRY
ENVEDA HYDERABAD

"OLIGONUCLEOTIDE PRESENTATION BY DAICEL WAS THE BEST PART OF PURIFY!"

N. RAGHAVENDER
SCIENTIST - II
HETERO DRUGS LIMITED

"DIFFERENT TALKS BY DIFFERENT PEOPLE - INFORMATION WAS REALLY USEFUL."

P. PHANI RAJYA LAXMI
ASSISTANT GENERAL MANAGER
BIOLOGICAL E. LIMITED

"THE TALKS THAT I LIKED WERE SURFACE FUNCTIONALIZED RESINS FOR PURIFICATION IN DOWNSTREAM, SYNTHESIS OF OLIGOPEPTIDES, NITROSAMINE ASSESSMENT, INORGANIC NANOPARTICLES, MOF/COF MEMBRANES IN PURIFICATION."

ANURAG CHAHANDE
SENIOR RESEARCH OFFICER
ANALYTICAL RESEARCH LAB
ALIVUS LIFE SCIENCES



Light of **Knowledge**

PURIFY will always be grounded to its values and continues to be a blessed event!
We hope to contribute 'our bit' in illuminating this path.

"RAVI RAPOLU DISCUSSING ABOUT OLIGONUCLEOTIDE PURIFICATION AND MURALIDHARAN CHANDRAKESAN DISCUSSING ABOUT PURIFICATION WAS EXCELLENT!"

MOTAMARRI VENKATASIVA
EXECUTIVE
HETERO DRUGS UNIT-I

"NETWORKING TIME IS GREAT. FOR PEOPLE INTERACTION, SUFFICIENT TIME HAS BEEN PROVIDED."

JATIN GUPTA
TECHNOLOGY MARKETING & PROCESS DESIGN SPECIALIST
ICUBE NANOTEC INDIA LLP

"PURIFICATION TECHNIQUES OF PEPTIDES WAS THE BEST PART OF PURIFY'25!"

VENKATA SUBBARAO K
SRS-1
LAURUS LABS LTD.

"SEMAGLUTIDE PURIFICATION ON POLYMERIC ADSORBENTS WAS VERY INTERESTING."

M. BALA MURALI KRISHNA
AGM
LAURUS LABS LTD.

"INFORMATION ON PEPTIDE OLIGONUCLEOTIDE WAS INTERESTING!"

SYED ANWAR
ASSOCIATE DIRECTOR-I
MATRIX PHARMA CORP.

"AMAZING TIME MANAGEMENT AT PURIFY'25."

PRASANTA DALASINGH
DGM
LAURUS LABS LTD.

A **Milestone**

With PURIFY'25, we perhaps became the largest congregation for a Purification Chromatography Conclave in the world!



PURIFY IS ONE PLACE WHERE WE CAN DISCUSS DIFFERENT PURIFICATION PROCESSES.

SADAKAR T.
SRS-2
LAURUS LABS LTD.

PURIFY WAS ALL ABOUT ENERGY IN THE ROOM, INDUSTRY LEADERS AND INNOVATORS COMING TOGETHER TO PUSH PURIFICATION TECHNOLOGY FORWARD.

KALPESH VISHE
RESEARCH ASSOCIATE
LUPIN MANUFACTURING SOLUTION LTD.

DIVING DEEP INTO NITROSAMINE PURIFICATION WAS THE BEST TALK AT PURIFY!

SWAPNIL KATTE
RESEARCH ASSOCIATE
LUPIN MANUFACTURING SOLUTION LTD.

PERSPECTIVES - DIVING DEEP INTO NITROSAMINE PURIFICATION WAS THE BEST!

CH SATYAM
SENIOR EXECUTIVE
NATCO PHARMA

THE QUALITY AND RELEVANCE OF THE KEY SESSIONS COMBINED WITH THE OPPORTUNITY FOR IMMEDIATE DIRECT Q&A WAS BOTH INSIGHTFUL AND PRACTICAL.

SUDARSAN KOCHU GOVINDAN
CHIEF OPERATING OFFICER
AIZEN ALGO

KNOWLEDGE SHARING WAS SUPERB AT PURIFY'25.

NANDURI KAMESWARA RAO
RESEARCH SCIENTIST

Naturally **Yours!**

One of the finest ways to greet!
Your persona deserved every bit of it!



Selfie **Point!**

An important corner! A step-up stage that built relationships, captured moments and got smiles on every face!



> THE TALK ON THE METHOD OF SOLVENT RECOVERY WAS THE BEST.
>
> **SUDHAKAR MANYAM**
> NEULAND LABS LTD.

> PURIFY FEATURES A LOT OF SCIENTIFIC DISCUSSION ON CURRENT TOPICS.
>
> **PURNENDU ROY CHOWDHURY**
> VICE PRESIDENT – ANALYTICAL
> TCG LIFESCIENCES

> EXCELLENT PRESENTATION DONE BY SPEAKERS ABOUT ADVANCED TECHNIQUES.
>
> **SANTHOSH GUDURU**
> PRINCIPAL SCIENTIST
> SAI LIFE SCIENCES PVT. LTD.

> NETWORKING WAS THE BEST PART OF PURIFY'25!
>
> **GUDDATI ANUDEEP**
> NEULAND LABS LTD.

> SCIENTIFIC DISCUSSIONS ON PEPTIDES, OLIGONUCLEOTIDES AND NEW TECHNOLOGY FOR PURIFICATION WERE GREAT ASPECTS OF THIS PURIFY!
>
> **NAGANJANEYULU G.**
> NEULAND LABS LTD.

> ALL THE LECTURES, SUBJECT, SPEAKERS; IN SHORT EVERYTHING IS GOOD ABOUT PURIFY!
>
> **HARSHAL RAJENDRA SONAWANE**
> SCIENTIST R&D
> SYNTHINK RESEARCH CHEMICALS

Behind the **Console**

The men with their machines made the tough job look easy!



> RELEVANT TOPICS DELIVERED BY SPEAKERS WHO ARE HIGHLY KNOWLEDGEABLE.
>
> **PUNEET RASTOGI**
> GENERAL MANAGER & HEAD – PORTFOLIO & STRATEGY - API BUSINESS
> MSN LABS

> PURIFY BRINGS TOGETHER PHARMA, BIO, OLIGOS, ANALYTICAL, ETC., COMMUNITIES FOR SHARPENING AGENDAS WHILE OFFERING DEEPER SCIENTIFIC SOLUTIONS.
>
> **BHANOTHU PRAVEEN KUMAR**
> NEULAND LABS LTD.

> PURIFY PRESENTS GOOD KNOWLEDGE SHARING SESSIONS!
>
> **GOPI KRISHNA YENDURI**
> SENIOR PRINCIPAL SCIENTIST
> SAI LIFE SCIENCES PVT. LTD.

> PURIFY IS ALL ABOUT KNOWING NEW THINGS GOING ON ACROSS THE WORLD AS REGARDS PURIFICATION.
>
> **MAHESH KUMAR GEEREDDY**
> SENIOR RESEARCH SCIENTIST
> SAI LIFE SCIENCES PVT. LTD.

> THERE ARE MULTIPLE BEST ASPECTS ABOUT PURIFY, BUT ADVANCED RP HPLC IS VERY MUCH RELATED TO ME.
>
> **SURESH PILLI**
> ASSOCIATE RESEARCH SCIENTIST
> SAI LIFE SCIENCES PVT. LTD.

> PURIFY IS A GOOD EVENT AT SUCH A GOOD PLACE.
>
> **K SUSHMA**
> OFFICER
> NATCO PHARMA INDUSTRY

> TIME MANAGEMENT IS THE BEST PART OF PURIFY!
>
> **GANESH DNYANESHWAR JADHAV**
> ASS. MANAGER
> USV PHARMA, MUMBAI

AI / ML DISCUSSION WAS EXCELLENT!

PRASANTHA
SYNGENE

PURIFY HELPS IN KNOWLEDGE SHARING FROM DIFFERENT CHEMISTRIES.

SUDIPTA MUKHERJEE
SENIOR PRINCIPAL SCIENTIST
SAI LIFE SCIENCES PVT. LTD.



Warmth **Personified!**

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

PURIFY IS THE PLACE TO LEARN ABOUT NEW TECHNIQUES.

NILESH D PATIL
DGM - CR&D
SHILPA PHARMA LIFESCIENCES LTD.

ONE OF THE BEST PLATFORMS TO NAVIGATE PURIFICATION, PEPTIDES, OLIGOS, ADC, ETC.

DIPAK KALITA
SENIOR VICE PRESIDENT – R&D (CDMO, PEPTIDE, OLIGOS, ADCS)
SHILPA PHARMA LIFESCIENCES LTD.

PURIFY'25 WAS GOOD AND MET EXPECTATIONS.

AVSS PRASAD
VICE PRESIDENT & HEAD, AR&D
SHILPA PHARMA LIFESCIENCES LTD.

NETWORKING AND PRESENTATIONS WERE GREAT AT PURIFY'25!

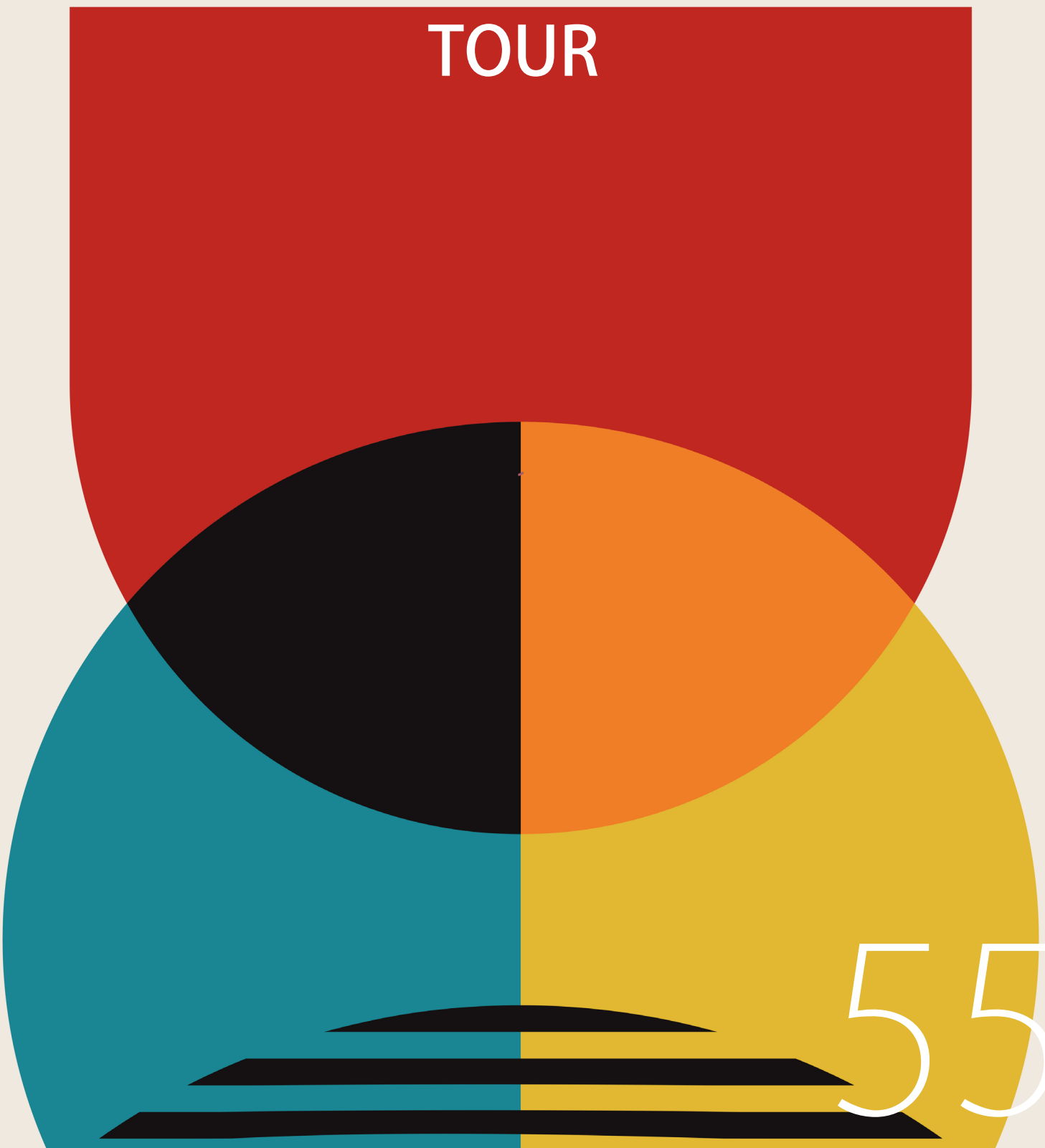
SRIKANTH M
TEAM LEADER
SYNGENE

GOOD SPEAKERS AT PURIFY'25.

SASIKKUMAR C
SYNGENE

8th EDITION purify25 CHROMATOGRAPHY PURIFICATION CONCLAVE

VISUAL TOUR



55

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!

29th November, 2025
3:55 pm



1st December, 2025
12:30 pm



2nd December, 2025
2:45 pm





2nd December, 2025
5:35 pm





4th December, 2025 6:40 pm



4th December, 2025 8:40 pm



4th December, 2025 9:50 pm



4th December, 2025 10:20 pm



4th December, 2025 11:35 pm



5th December, 2025 12:40 pm



5th December, 2025 1:15 am



5th December, 2025 2:55 am



The banquet is prim and proper...

awaiting its valued attendees!




8th EDITION
purify25
CHROMATOGRAPHY PURIFICATION CONCLAVE




purify
2,045+
210+
103


8th EDITION
purify25
CHROMATOGRAPHY PURIFICATION CONCLAVE
For Thought Provoking Leadership in
Chromatography Purification
Friday, 5th December, 2025
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SFE PROCESS
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Excellence in Science
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DAICEL
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inkarp
ANATEK
SSI
Biotage





Crowning **Glory**

The hour dawned, unveiling of PURIFY'25 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!










purify
CHROMATOGRAPHY PURIFICATION CONCLAVE
A Well Captured Journey
EVENTS SUMMARISED
purify19
purify22
purify22
purify23
purify24
A Treat for the Universe
Most Choices Fulfilled
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CUSTAGE
MARKETING SOLUTIONS
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CHROMATOGRAPHY PURIFICATION CONCLAVE
A CUSTAGE INITIATIVE

Constellation of **Stars**



Narender Kumar
Deputy Senior Manager, Mitsubishi Chemical Aqua Solutions, Tokyo, Japan



Dr. Imre Sallay
Daisogel Product Manager, Osaka Soda Co., Ltd., Japan



Cyril CALATRAVA
Head Sales & Business Development, SFE Process, France;



Jean-Christian HARTEMANN
In Charge of Business Development India, SFE Process, Navi Mumbai



Beat Hüsler
Managing Director, MAVAG AG, Switzerland



Harshal Taori
Deputy General Manager - Sales, Mavag, GMM Pfaudler Ltd., Mumbai



Prashant Nemmaniwar
Product Manager, Waters India Pvt. Ltd., Bengaluru



Dr. Fredrik Lime
Technical Development Manager - Kromasil, Nouryon, Sweden



Kota Satyanarayana
VP - Process R&D, I Cube Nanotec India LLP, Noida

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.



Jatin Gupta
Technology Marketing & Process Design Specialist, I Cube Nanotec India LLP, Noida



K.P.K Gopalakrishnan
Executive Vice President Sales & Marketing, Spinco Biotech Pvt. Ltd., Bengaluru



Dhanunjaya Naidu
Business Development Manager, Phenomenex India Pvt. Ltd., Hyderabad



Dr. G. Srinivasa Rao Ph.D.
Director, YMC India, Noida;



Adiraju Sivasyam Sunder
General Manager - Equipment Sales, YMC India Pvt. Ltd., Noida



Juzer Ekhlas
Director, ATR Asahi Process Systems Pvt. Ltd., Vadodara



Sambasivarao Vattikuti
Product Specialist - Liquid Chromatography, Agilent Technologies India Pvt. Ltd., Hyderabad



Ravi Rapolu Ph.D.
Technical Consultant, Daicel Chiral Technologies India Pvt. Ltd., Hyderabad

Perspectives



TAG Assisted Peptide Synthesis (LPPS)

L-R

Dr. Dipak Kalita
Senior Vice President - R&D (CDMO, Peptide, Oligos, ADCs),
Shilpa Pharma Lifesciences Ltd., Karnataka;

Prof. Hosahudya N. Gopi
Professor, Department of Chemistry,
IISER, Pune



Diving Deep Into Nitrosamine Purification

L-R

Dr. Vijaya Bharathi. D,
Sr. Vice President & Head, Analytical Solutions,
Aragen Life Sciences Ltd.,
Hyderabad;

Puneet Rastogi,
General Manager & Head BD, Portfolio & Strategy - API Business, MSN Laboratories Private Limited,
Hyderabad



Next-Generation Drug Conjugates: Overcoming Purification Frontiers; the Chemistry and Biology Approach

L-R

Somesh Sharma, PhD, MBA,
Chief Operating Officer,
Cohance Lifesciences Limited,
Hyderabad;

Partha P. Hazra, Ph.D.,
R&D CoE Lead (Biotherapeutics),
Full-Time Consultant,
Biocon Biologics, Bengaluru

AI / ML - Enhanced Decision Making

L-R

Dr. Sudarsan Kochu Govindan
COO, Aizen Algo,
Hyderabad;

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





Flow Chemistry Transformations in Peptide Manufacturing

L-R

Dr. Srividya Ramakrishnan
Global Head - CDMO DS,
Aurigene Pharmaceutical Services Ltd., Hyderabad;

Dr. Amol A. Kulkarni
Chief Scientist and Head, Chemical Engineering and Process Development Division,
CSIR - National Chemical Laboratory,
Pune

Smart Fraction Analysis: Turbocharging Peptide Purification With Advanced PAT

L-R

Muralidharan Chandrakesan
Sr. Vice President, Peptide-Operations,
Hetero Drugs Ltd.,
Hyderabad ;

S. Sethumadhavan
Chief Operating Officer,
Plasmagen Biosciences Pvt. Ltd.,
Karnataka



8th EDITION purify25 CHROMATOGRAPHY PURIFICATION CONCLAVE

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!
























usp
Peptide Standards and Materials








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Welcome to
8th EDITION
purify25
For Thought Provoking
Friday,
5th December,
2025
ITC Kohenur,
Hyderabad
YMC
SFE


SODA




























EXIT







Two-Together














Sciences
Streamlined Solutions for
Scientific Discovery


Welcome to
Friday,
5th December,
2025
Welcome to
SFE


EXIT
Agilent InfinityLab Pro iQ
Series mass detectors




Product Innov
real - world

For Thought Provoking Leadership In
Chromatography Purification

Knowledge,
The Fibre of Success



PURIFY'25 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.













































LUCKY DRAW WINNERS!





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Percussion Massage Gun





OnePlus
Nord Buds 3r TWS Earbuds





JBL
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Morphy Richards
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A STAND-UP SHOW!
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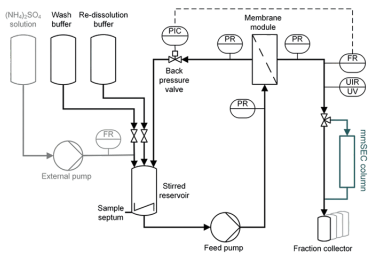
- Daptomycine
- Tiecoplanin
- Mupirocin
- Serratia-Peptidase
- Vancomycine
- 9-AD-4-OH
- Surfactin
- r-DNA (Plasmid)

Chemi-Enzymatic-Peptide

- Micafungin
- Anidulafungin
- Fosfomycine
- Degarelix
- Cetrorelix
- Octreotide
- Triptorelin
- Droxidopa
- Norephidrine

Natural Products

- Sennosides
- Thiocolchicosides
- Pectin
- Steviosides
- Ca-Sennosides
- Flavonoids
- Estrogens
- Albumin
- Phytosterols





IPSUM BIO TRAP | IPSUM PURAPID | IPSUM NAT-TRUE | IPSUM BULK PHARM

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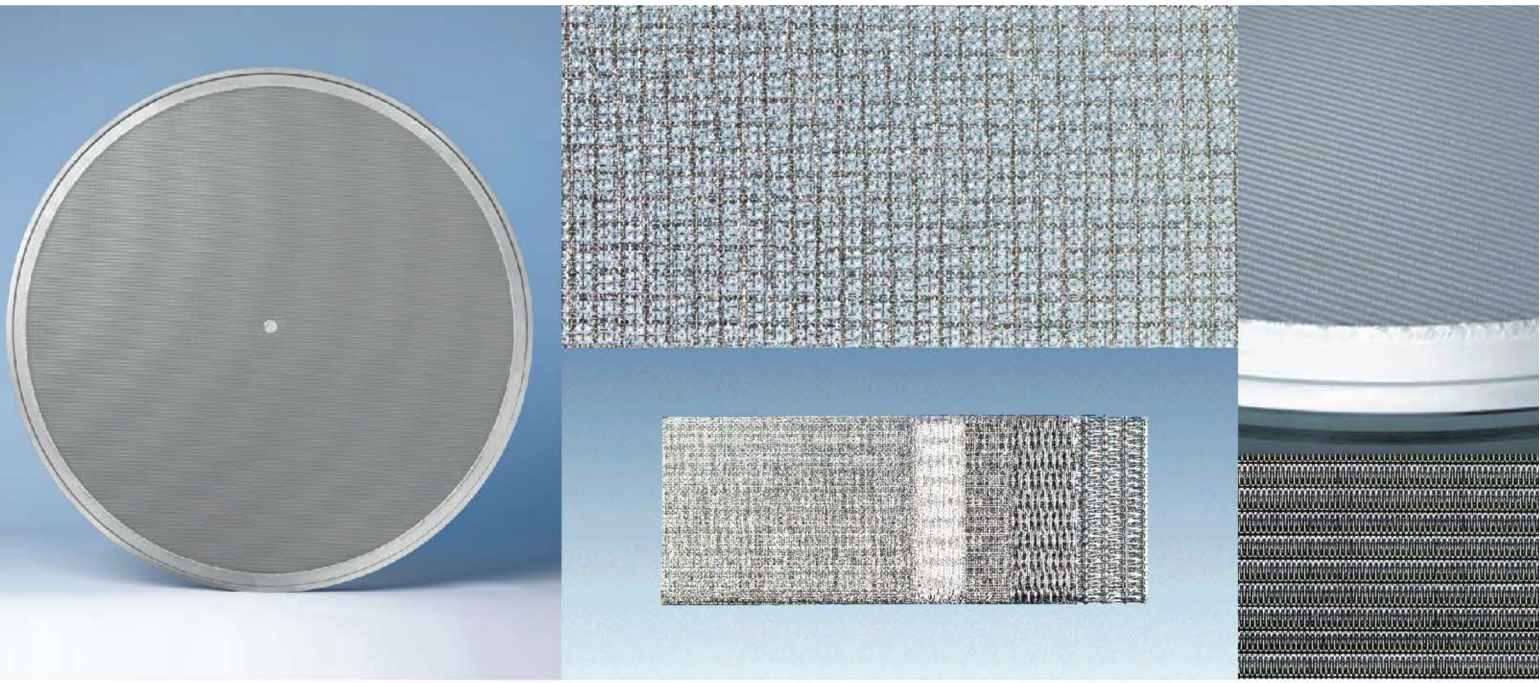
BOPP

Sawant Filtech



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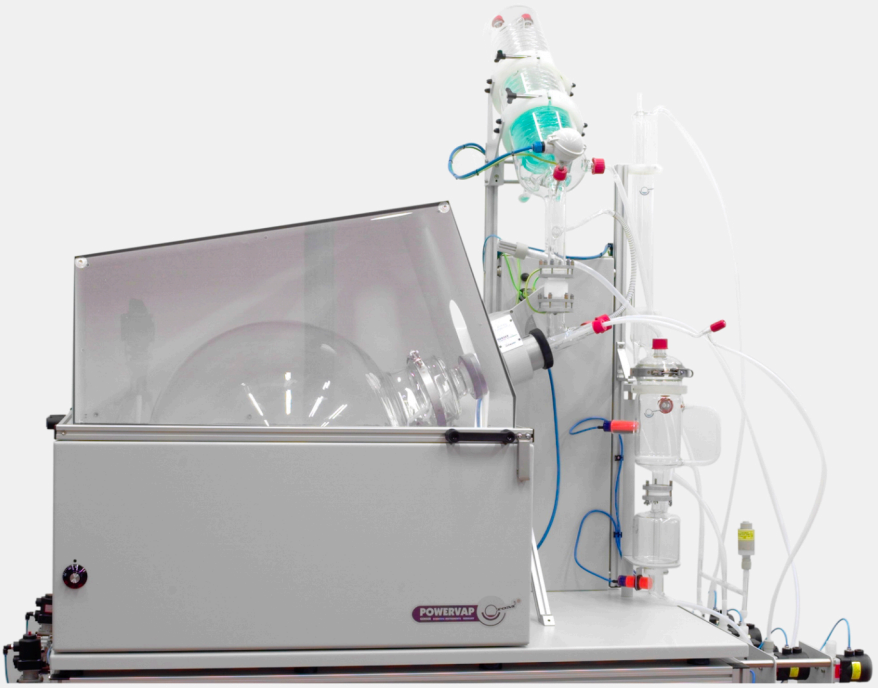



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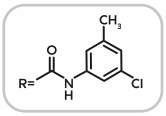

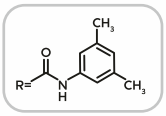



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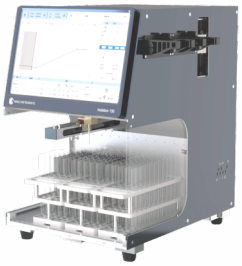
Coated and Immobilized Configurations

Purification Solutions



Flash System



Preparative System & DAC Column



Welflash Column

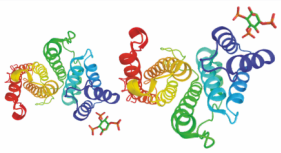


Prep Column



Silica Media

Peptide Analysis & Purification One Stop Solution



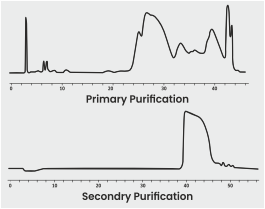


Advanced Chemistry for Demanding Peptide Analysis

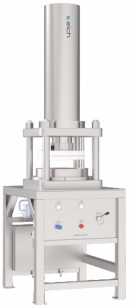
- Peptide Analytical Columns
  - RP • IEX • SEC • HILIC
- Crisp peaks. Excellent recovery.
- Optimized for complex peptide separations
- High batch-to-batch consistency

Production Scale Prep & DAC Systems for Peptide Purification

- DAC Columns for pilot, kilo & commercial batch production
- Bulk silica media with proven stability & lifetime
- Automated system control for batch-to-batch reproducibility



Explosion-proof High-Pressure Purification Liquid Phase System





- **Production Scale** : IECEX Explosion proff Preparative System with DAC Column.
- **Flow range Ltr/min** : 3 ltr to 80 ltr
- **DAC Column ID** : 300 mm to 2000 mm

Wel-Bio Process LC

- **Production Scale** : IECEX Explosion proff Preparative System with DAC Column.
- **Flow range Ltr/min** : 3 ltr to 80 ltr
- **DAC Column ID** : 300 mm to 2000 mm



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8th EDITION purify25 CHROMATOGRAPHY PURIFICATION CONCLAVE



FEW INTERACTIONS

91

From Sugar to Peptides

Chromatography Evolves



Narender Kumar
Deputy Senior Manager,
Mitsubishi Chemical Aqua Solutions, Tokyo, Japan

Q. According to you, what is an exciting development in the context of chromatography purification or related techniques?

Without a second thought, it is continuous chromatography. It is well proven technology in the sugar separation segment; however, it is now making its way into small molecules and peptide purification as well.

Q. Tell us about your most recent product or service launch.

Our latest development is MMD-SEP™, a four-column improved simulated bed chromatography machine, which can achieve the desired purity with high recovery and low solvent consumption, along with a significantly smaller footprint.

Q. How do you see the growing recognition of PURIFY Chromatography Purification?

based on content and participation of key stakeholders, it is one of the best platforms in Asia.

Q. Tell us about your contribution to sustainability or green chemistry.

As I mentioned, solvent usage in GLP-1 analogue manufacturing is enormous and our technology can reduce this solvent consumption to less than 50% (debatable).

Enabling Scalable and Sustainable Purification Through SFC



Cyril CALATRAVA
Head Sales & Business Development,
SFE Process, France

Jean-Christian HARTEMANN
In Charge of Business Development
India, SFE Process, Navi Mumbai

Q. According to you, what is the most exciting recent development in chromatography purification?

One of the most exciting developments in chromatography purification is the increasing adoption of supercritical fluid chromatography (SFC) purification techniques. SFC offers many advantages over traditional liquid chromatography techniques in terms of faster purification, efficiency and reduced solvent consumption. It is also highly efficient in chiral separations, making it very attractive for pharmaceutical drug discovery and development. The most exciting aspect of SFC is that it is scalable for process purification. With the increased focus on process efficiency, green chemistry and cost reduction in the pharmaceutical and chemical processing industries, SFC is being recognised as a viable option for future purification technologies. Through our association with Sanitech Engineers and SFE Process, we are able to provide access to SFC technology, enabling pharmaceutical and biotech companies to realise the potential of purification technologies.

Q. Your most recent product or service launch.

Our most recent product development activities have concentrated on the development and launch of cutting-edge purification platforms using SFC technology to support the pharmaceutical and biotech industries through Indian Channel Partner Sanitech Engineers Pvt. Ltd. who have been in the separation and purification business from last 35 years.

These platforms are intended to help the pharmaceutical and nutraceutical industries develop methods that are quicker, purer and more efficient and also allow the scaling up of these methods from the analytical and semi-preparative stages to the preparative stages.

Through partnership between SFE Process and Sanitech Engineers, we are able to provide the pharmaceutical and nutraceutical industries with the most innovative and cutting-edge SFC purification technology as well as the engineering support necessary to provide a robust environment.

Q. How do you see the growing recognition of PURIFY Chromatography Purification?

Clearly, the recognition of the PURIFY Chromatography Purification Conclave reflects the importance of purification technologies in the research activities of the pharmaceutical and nutraceutical industries, particularly within the new Indian life sciences landscape. Purification is considered to be a very critical and challenging step in the development of new drugs. The PURIFY Chromatography Purification Conclave plays a vital role in facilitating the exchange of information and ideas among scientists, industry leaders and technologists who are working towards the development of new purification technologies, including preparative chromatography and SFC techniques, as purification challenges continue to emerge with complex molecules, peptides and chiral compounds.

Q. Your contribution to sustainability or green chemistry.

Sustainability is increasingly becoming as a major focus area in the pharmaceutical manufacturing process in general and purification processes

are no exception. Our strategy is centred around promoting sustainable purification processes by employing technologies that are environmentally friendly, reducing the amount of solvent required in the process, and increasing efficiency.

Sanitech Engineers Pvt. Ltd., has been working towards desired product purification using two scalable and green technologies viz; membrane filtration and preparative chromatography. Since chromatography and extraction consumes heavy solvent volumes, collaboration with SFE Process was moving towards greener route.

Supercritical Fluid Chromatography (SFC) is one technology that is highly consistent with the principles of green chemistry since it employs CO_2 as the main solvent in the process, reducing the need for large quantities of organic solvents.

Through our expertise in supercritical technologies at SFE Process and process engineering at Sanitech Engineers Pvt. Ltd., our aim is to enable pharmaceutical manufacturers to adopt sustainable purification processes without sacrificing performance, reliability or scalability Sanitech Engineers has a complete portfolio of products from lab to pilot to commercial scale and have developed many sustainable green processes reducing or eliminating energy consuming operations like solvent extraction, rotary vacuum and other industrial scale (such as thin film) evaporators, centrifuges, filter press, distillators etc.

Peptide Synthesis Expands

with Advanced Systems and Diverse Applications



Harshal Taori
Deputy General Manager - Sales,
Mavag - Filtration & Drying, GMM Pfaudler Ltd, Mumbai

Q. Please update the readers with the latest developments in your products and services.

One area where we've seen significant growth is in peptide synthesis. It has become increasingly critical over the past decade due to its role in producing life-saving therapeutics—such as hormones, vaccines, and targeted treatments for conditions like diabetes and cancer. In this space, adherence to Good Manufacturing Practices (GMP) is absolutely essential. Even minor deviations can impact the efficacy of peptide-based drugs, so consistency and regulatory compliance are non-negotiable.

At GMM, we've been operational in Switzerland since 2008 and over the last five years, we've worked closely with clients there to develop Solid Phase Peptide Synthesisers (SPPS).

Traditionally, SPPS units were built using glass, which can limit manufacturing scale. To address this, we've engineered metallic SPPS systems with capacities up to 2,500 ltr and we're fully equipped to design and manufacture even larger units. This capability positions us strongly to support the evolving needs of peptide manufacturers worldwide.

Q. From your product portfolio perspective, what do you experience as the prevailing product aspirations of customers?

We offer a broad range of products and customised solutions for critical applications such as peptide synthesis, powder drying and the filtration of potent APIs. One of our standout offerings is our exclusive skid-mounted automated system for peptide synthesis. This integrated skid includes an SPPS, an enclosed resin charging system, mixing vessels, solvent tanks, solvent recovery units, hot water systems and vacuum systems. The entire setup is supported by advanced automation that ensures seamless operation and data recording in full compliance with regulatory standards.

This skid-based system provides our clients with significant operational advantages - it simplifies the synthesis process, offers a single point of contact for the entire setup and minimises the risk of errors. It's a testament to our commitment to delivering not just products, but complete, reliable solutions that enhance efficiency and quality in pharmaceutical manufacturing.

Q. How do you see the growth of the chromatography purification / peptide synthesis market over the next 3-5 years?

The growing prevalence of chronic and life-threatening diseases such as osteoporosis, cancer, cardiovascular conditions and diabetes has significantly increased the demand for peptide therapeutics. Peptides offer high specificity, strong efficacy and a relatively safe pharmacological profile, making them highly effective in treating a wide range of conditions.

In particular, the peptide therapeutics market is witnessing rapid growth across the Asia Pacific region. This momentum is driven by several factors: a rising burden of chronic illnesses, continuous advancements in peptide synthesis technologies and the expansion of the biopharmaceutical sector. Additionally, increased investment in research and development, supportive regulatory frameworks and the growing emphasis on personalised medicine are further accelerating market expansion.

From a delivery standpoint, the parenteral route dominates the market. In fact, the parenteral segment is projected to hold a major share, with an estimated market size of USD 38.0 billion in 2024, expected to reach USD 60.28 billion by 2029 - reflecting a robust CAGR of 9.66% over the forecast period.

Q. Any emerging application areas beyond the pharma and bio-pharma business for chromatography purification / peptide synthesis?

In addition to naturally derived peptides, synthetic peptides like palmitoyl pentapeptide-4, commonly known as Matrixyl, have shown promise in stimulating collagen production. This peptide is particularly beneficial in cosmetic applications, helping to improve skin texture and reduce signs of aging such as age spots and dark circles.

Beyond skincare, peptides are gaining traction in the nutraceutical space due to their anti-inflammatory, antimicrobial, and antioxidant properties. Their versatility opens up a wide range of applications—from functional foods to therapeutic supplements - making this an exciting area of growth. The potential is vast, and as research continues to evolve, we see significant opportunities ahead in both health and wellness sectors.



Balancing Cost, Performance and Sustainability

In Peptide Purification

Anders Hägg
Lead - Global Segment for Pharma,
Kromasil, Nouryon, Sweden

Q. According to you, what is the most exciting recent development in chromatography purification?

In recent years, a lot of attention has been given to efficient purification of GLP-1 receptor agonists primarily for the treatment of diabetes type 2 and weight loss. With APIs like Liraglutide, Semaglutide and Tirzepatide, there is a continuously growing pipeline of new potential GLP-1 and GLP-1-related APIs across pharma companies globally. Consequently, there is increased attention to improving purification efficiency and performance. HPLC continues to play a critical role in manufacturing these existing and future drugs. Sustainability and total purification economy are key parameters. As a leading supplier of innovative purification media and application know-how, it is very exciting to play an important role in this game-changing development for so many people around the world.

Q. Tell us about our most recent product or service launch

Nouryon is proud to be at the forefront of this disruptive development offering state-of-the art RPC media and know-how, to efficiently purify these new drugs. With the recent launch of our new media, Kromasil® di-C4, specifically developed for GLP-1 purification and an extensive application development package—our 'GLP-1 agonist purification toolbox'—we support customers globally in achieving the most efficient purification with an attractive total purification cost.

The Kromasil® diC4 stationary phase is new purification media targeting the purification of peptide and biomolecules. With 100 Å pore size it has shown to be highly efficient to reach purity levels over 99.5% for GLP-1 receptor agonists like Liraglutide and Semaglutide, even with crudes with a target product purity as low as 15%. In 300 Å, the purification of larger biomolecules can also be addressed.

Main benefits are increased yield, reduced use of organic solvents, higher loadability and higher productivity.

Our efforts to extend our 'GLP-1 agonist purification toolbox' continue and we look forward to sharing more application examples and new products to further improve total cost and other important features like solvent consumption and purification productivity.

Q. How do you see the growing recognition of PURIFY Chromatography Purification?

Events like PURIFY facilitate the critical collaborations and scientific discussions that enable us to partner with customers and the broader chromatography community in India. It offers a unique opportunity to better understand the current and future requirements of the Indian market and to get to know what is boiling in the chromatography community in India.

Q. Tell us about your contribution to sustainability or green chemistry.

Nouryon sees sustainability as a foundation for business growth and long-term value, delivering real, customer-focused solutions.

When we look specifically at Nouryon's Kromasil, we constantly strive to minimise the environmental impact of purification, both in our customers' operations and in our own manufacturing of the chromatography media itself. Solvent use in media manufacturing has been reduced while maintaining the well-recognised, consistent quality of Kromasil products.

The superior mechanical and chemical stability of Kromasil allow customers to run more cycles using Kromasil than with other resins. More cycles reduces total demand for purification media with less repacking down-time and waste produced.

With higher efficiency and loadability, Kromasil increases the output without having to install additional equipment.

This combined offers a major benefit to both sustainability and total cost of manufacturing.

Purification Technologies See Wider Adoption Across Industries



Dr. Kota Satyanarayana
VP – Process R&D,
I Cube Nanotec India LLP, Noida

Jatin Gupta
Technology Marketing & Process Design Specialist, I Cube Nanotec India LLP, Noida



Q. According to you, what is the most exciting recent development in chromatography purification?

The GLP drug market is forecasted to reach a market size of USD 100 billion by 2030, according to a leading market research firm. This growth is driven by the expansion of insulin and insulin biosimilar markets, as well as the anticipated rise in therapeutic oligonucleotides. For most GLP drugs, the production process typically involves solid-phase synthesis, followed by multiple chromatography steps and lyophilisation.

Given this forecast, we can expect significant growth in the chromatographic purification market. New technologies are being developed to enhance the efficiency of chromatography, with an increasing focus on novel solutions that reduce mobile phase consumption and improve productivity. This presents exciting opportunities for innovation and optimization within the chromatography space, aligning with the industry's evolving needs.

Q. Tell us about your most recent product or service launch?

We offer a diverse range of products across various categories, ensuring we meet the unique needs and challenges of our clients. Our extensive product portfolio is designed to provide comprehensive solutions, from solvent recovery systems to cutting-edge membrane reactors, all tailored to drive efficiency and sustainability in industrial processes.

Our company offers advanced solutions for solvent recovery and drying with the VOLOPURE™ systems, which are designed to efficiently handle solvents such as THF, dioxane, ethyl acetate, acetonitrile, ethanol, IPA, acetone, MEK and others. These systems help optimize the recovery and reuse of solvents, reducing waste and enhancing sustainability.

Additionally, we provide MAREX™ Membrane Reactors for inline water removal from condensation reactions. This innovative technology significantly improves the efficiency of chemical processes by preventing water buildup that could interfere with production quality.

We are dedicated to delivering high-performance, eco-friendly solutions that meet the evolving needs of the industry.

Q. How do you see the growing recognition of PURIFY - Chromatography Purification?

PURIFY - Chromatography Purification is a boutique conclave with a great network of industrial experts to exchange ideas. Beyond pharmaceutical and biopharma applications, chromatographic purification has significant potential in a variety of other industries. This includes specialty and fine chemicals, food extracts and several others. As industries continue to prioritize efficiency and product quality, the versatility of chromatographic technologies will be increasingly recognized and adopted across a broad range of sectors.

Q. Tell us about your contribution to sustainability or green chemistry.

ICNI process solutions are fundamentally oriented with sustainability goals with reducing energy consumption (reducing carbon footprint) and minimizing effluent generation.

For Thought Provoking Leadership in
Chromatography Purification



Making Purification
A Strategic Advantage

Navin Devadiga, PhD
Deputy Manager - Business Development
Drug Discovery & CDMO, Shimadzu India Pvt. Ltd., Mumbai

Q. According to you, what is the most exciting recent development in chromatography purification?

One of the most exciting developments in recent years is the shift from standalone purification systems to fully integrated, end-to-end automated workflows. Today, laboratories are no longer looking at purification as an isolated step, they seek complete solutions that can seamlessly manage complex purification challenges, including post-processing and method adaptability.

In this context, Shimadzu Corporation's UFPLC technology represents a significant advancement. It goes beyond conventional Prep-LC by integrating automation not only for purification but also for post-processing steps. The built-in desalting and free-basing functionalities directly address common challenges associated with buffer usage in preparative LC workflows.

This innovation enables laboratories to adopt pharmacopeial methods directly more easily for purification, particularly in impurity isolation, which is often one of the biggest bottlenecks in the purification process. Additionally, it effectively manages the complications arising from complex buffers such as TFA, which can form counter-ions and compromise final product purity.

Overall, such integrated automation enhances efficiency, reproducibility and product quality, marking a transformative step in chromatography purification technology.

Q. Your most recent product or service launch.

As the biopharmaceutical landscape evolves, the industry is witnessing a significant shift toward advanced therapeutic modalities such as biologics, gene therapies and personalised medicines. This transformation requires purification technologies that are not only high-performing but also flexible, scalable and capable of supporting accelerated development timelines and complex downstream workflows.

To address these emerging needs, Shimadzu has entered into a strategic partnership with Sepragen, marking its entry into the rapidly expanding large molecule therapeutics market. Sepragen offers a comprehensive portfolio of chromatography and bioprocess solutions designed to support the entire lifecycle of drug development, from early process development to clinical and commercial manufacturing, enabling seamless scale-up across downstream bioprocessing operations.

At the core of Sepragen's innovation is the QuantaSep® system family, compact, automated, multi-use and single-use chromatography platforms integrated with proprietary Superflo® Radial Flow Column technology. These systems are engineered for intelligent scale-up, reduced laboratory footprint and streamlined process workflows.

By combining automation with scalable column design, the QuantaSep® platform enables rapid transition from laboratory to production scale while maintaining process consistency and regulatory compliance, empowering manufacturers to meet the dynamic demands of modern biotherapeutic development.

Q. How do you see the growing recognition of PURIFY Chromatography Purification?

The growing recognition of purification focused chromatography reflects a significant shift in how laboratories view the role of separation science. Purification is no longer considered just a supporting step after analytical, it has become a strategic function, especially in drug discovery, impurity isolation, metabolite identification and reference standard preparation. From an expert perspective, the



increasing complexity of molecules, such as highly functionalised small molecules, chiral compounds and structurally similar impurities, has elevated the importance of dedicated purification platforms. Organisations now recognise that analytical success alone is not sufficient; scalable, reproducible and efficient purification workflows are equally critical to accelerating development timelines.

Looking ahead, the future of purification focused chromatography systems will revolve around, direct scalability, buffer management capabilities, end-to-end automation, smart software integration and sustainable technologies. In essence, purification chromatography is gaining recognition because it directly impacts productivity, sustainability and overall development efficiency. The next phase will focus on intelligent, automated and environmentally responsible systems that transform purification from a bottleneck into a competitive advantage.

Q. Your contribution to sustainability or green chemistry?

Sustainability and green chemistry are becoming central priorities in the analytical and pharmaceutical industries. Our contribution in this area has been focused on promoting and implementing technologies that significantly reduce environmental impact while maintaining high analytical performance.

Supercritical fluid chromatography (SFC) stands out as one of the most sustainable solutions available today. In fact, SFC is the only greener aspect of the analytical industry that substantially reduces the consumption of hazardous organic solvents by primarily using CO_2 as the main mobile phase. Compared to conventional LC methods, this dramatically lowers solvent waste, disposal costs and laboratory environmental footprint.

In this direction, Shimadzu Corporation has been constantly evolving and advancing SFC technology with highly automated, robust and application-focused systems. By encouraging the adoption of advanced SFC platforms for analytical as well as preparative applications, I actively support laboratories in transitioning toward more sustainable workflows.

In line with its broader commitment to sustainable technologies, since 2010 Shimadzu has been offering energy-saving and resource-efficient Eco-Products Plus. These products are designed to achieve at least a 25% reduction in energy consumption, product size, consumables usage, carbon emissions, noise levels or energy density compared with conventional models. In fiscal year 2024 alone, these initiatives helped reduce 71,390 tonnes of CO_2 emissions during the product usage phase for customers, contributing significantly to global sustainability goals.

Beyond technology adoption, I also emphasise method optimisation strategies that reduce solvent consumption, improve efficiency and enable direct scalability from analytical to preparative stages, thereby minimising rework and resource utilisation. Through these efforts, I aim to contribute to a more responsible, efficient and environmentally conscious analytical ecosystem aligned with the principles of green chemistry.

Chromatography Market
Set for Rapid Growth



Dhanunjaya Naidu
Business Development Manager,
Phenomenex India Pvt. Ltd., Hyderabad

Q. According to you, what is the most exciting recent development in chromatography purification?

Phenomenex is redefining GLP-1 (Glucagon-Like Peptide-1 [GLP-1] analogues) purification with robust organo-silica phases like Gemini C8(3) and Durashell, engineered for chemical stability, mechanical strength and extended lifetimes under high-pH conditions. These media excel in GLP-1, insulin and oligonucleotide purification, while Luna chemistries C18(3), C8(3), Phenyl Hexyl, etc., remain trusted for peptide purifications. The newly introduced Luna Prep Polar-RP media expands capabilities by enhancing retention of polar compounds even in 100% aqueous mobile phases, offering unique aromatic selectivity for challenging peptides and pesticides. For small-scale impurity isolations, Luna Omega columns, including the positively charged PS C18 and Luna Omega Polar C18, deliver tailored selectivity for polar molecules and improved peak shapes for bases, ensuring precision across diverse purification needs.

Q. Tell us about your most recent product or service launch.

Phenomenex provides a high-pressure preparative chromatography system from Agela Technologies. This system delivers a complete solution for advanced purification workflows by combining stability, precision and ease of use.

Main features are:

- Equipped with dual plunger pump technology
- Ensures highly accurate and repeatable flow control
- Built with a robust, durable design
- Supports operating pressures up to 40 MPa
- Enables the use of smaller particle size columns
- Enhances overall separation efficiency

In addition, Phenomenex offers the FLEXA High Flow Preparative Chromatography System, with flow rate instruments ranging from 50 mL/min to 1,000 mL/min for large-scale purification, along with DAC columns with 50 to 300 mm ID for R&D to manufacturing.

Q. How do you see the growing recognition of PURIFY Chromatography Purification?

PURIFY has firmly established itself as Asia's premier platform for chromatography purification, attracting unprecedented participation from the pharmaceutical, biopharmaceutical and chemical industries, with attendees spanning from bench-level scientists to CXOs. Each edition has shown remarkable growth and the most recent, its largest yet, highlighted cutting-edge purification technologies, regulatory insights and industry case studies, while fostering dynamic collaboration between scientists and vendors. Its rising recognition underscores India's pivotal role across both industry and academia, positioning PURIFY not merely as a regional gathering but as a hub of scientific excellence that is steadily drawing international attention.

Q. Tell us about your contribution to sustainability or green chemistry.

Phenomenex drives sustainability in analytical chemistry by creating high-efficiency columns like Kinetex and Luna that cut solvent use and waste, while offering low-background consumables for pollutant testing such as PFAS. Their operations also emphasise emission reduction and resource efficiency, earning strong climate performance ratings.

Scaling Purity

The Next Leap in Chromatography for Pharma Manufacturing



Shiva Shyam
General Manager - Equipment Division,
(Preparative HPLC Systems & DAC Columns), YMC India Pvt. Ltd., Nodia

Q. According to you, what is the most exciting recent development in chromatography purification?

Chromatography purification remains the cornerstone of downstream processing for complex pharmaceutical molecules such as peptides, oligonucleotides and high-value APIs. One of the most significant advancements in recent years is the evolution of high-performance preparative chromatography platforms that integrate scalability, precise process control and automation. Modern preparative HPLC systems provide highly accurate gradient control, automated operation and robust process monitoring, enabling purification methods to be transferred seamlessly from laboratory development to pilot and manufacturing environments with minimal process variability, while maintaining stringent quality and regulatory standards.

Another key development is the increasing adoption of Dynamic Axial Compression (DAC) column technology for large-scale purification. DAC columns ensure uniform packing of chromatographic media and stable bed compression, delivering consistent separation efficiency and reliable column performance across multiple purification cycles—an essential requirement for commercial-scale pharmaceutical manufacturing. At the same time, continuous chromatography technologies such as twin-column Multi-Column Countercurrent Solvent Gradient Purification (MCSGP) are gaining strong industry attention. These platforms significantly enhance product recovery, productivity and solvent utilization compared with conventional batch chromatography, making them particularly valuable for demanding separations such as peptide purification, where yield, purity and process efficiency are critical.

Looking ahead, the integration of high-efficiency preparative chromatography with continuous purification technologies will play a pivotal role in improving productivity, sustainability and scalability in modern pharmaceutical manufacturing.

Q. Your most recent product or service launch.

At YMC India, our focus is on delivering scalable chromatography purification technologies that support pharmaceutical process development and manufacturing. Our portfolio includes preparative HPLC systems, DAC columns and high-performance stationary phases, widely used for the purification of peptides, APIs and other complex molecules.

A key milestone in India has been the establishment of local column manufacturing under the Make in India initiative. Over the past four years, YMC India has developed the capability to manufacture chromatography columns domestically, enabling faster delivery, stronger technical support and closer collaboration with Indian pharmaceutical manufacturers. Supported by over two decades of global chromatography expertise, particularly in silica-based stationary phases and preparative column technologies, YMC India continues to provide purification solutions aligned with international quality standards. In addition, YMC is advancing continuous chromatography technologies such as twin-column systems,

enabling higher recovery and productivity in challenging separations while supporting more efficient purification processes.

Q. How do you see the growing recognition of PURIFY Chromatography Purification?

The PURIFY Chromatography Purification conclave has emerged as a focused platform dedicated to purification science and chromatographic technologies. The PURIFY'25 event held in Hyderabad brought together scientists, process engineers and technology providers to exchange insights on evolving purification strategies and downstream processing technologies.

As India's pharmaceutical industry continues to expand globally, purification technologies play a critical role in ensuring product quality, regulatory compliance and manufacturing efficiency. Platforms like PURIFY create valuable opportunities for knowledge exchange on topics such as preparative chromatography, process scale-up and continuous purification technologies, while also enabling meaningful engagement between technology providers and industry experts working on real-world purification challenges.

Q. Your contribution to sustainability or green chemistry.

Sustainability is becoming an important consideration in pharmaceutical purification, particularly because chromatographic processes often involve significant solvent consumption. Improving separation efficiency and process productivity is therefore essential to reducing environmental impact. YMC's chromatography technologies are designed to enhance efficiency, durability and long operational lifetimes, helping minimize material waste while improving overall process economics.

Technologies such as DAC columns ensure stable bed compression and consistent chromatographic performance over multiple purification cycles, reducing the need for frequent repacking. In addition, advanced preparative HPLC systems enable higher loading capacity and improved separation efficiency, which can significantly reduce solvent consumption and purification time. Continuous purification platforms such as MCSGP systems further support sustainability by improving product recovery while lowering solvent usage compared to conventional batch purification approaches.



Empowering Researchers and Manufacturers

To Meet the Evolving Demands

Nandakumar Kalathil
Country General Manager,
Agilent India, Ahmedabad



Agilent Technologies has a rich legacy in high performance liquid chromatography (HPLC) and ultra high-performance liquid chromatography (UHPLC), dating back to 1970 when Hewlett-Packard introduced its first HPLC system. This 50+ year heritage continues to inspire confidence and trust among customers and partners across pharmaceutical, biopharmaceutical, chemical, food and academic sectors. Today, Agilent offers a comprehensive portfolio of HPLC and UHPLC systems, extended into preparative and purification workflows through the InfinityLab LC Series. These systems are designed to deliver end-to-end analytical solutions, integrating advanced software, informatics, chemistries and supplies to enhance productivity, data integrity and operational efficiency.

In the purification space, Agilent's InfinityLab Purification Solutions support a wide range of workflows - from analytical to preparative scales - with column formats that include load-and-lock options for seamless scalability. The recently introduced InfinityLab Pro iQ MS system expands Agilent's capabilities in complex molecule purification, particularly for therapeutic peptides, GLP-1 analogs and synthetic oligonucleotides. With mass-based purification, intelligent software and automation, Pro iQ MS enables selective compound isolation, improves throughput and reduces operational costs - making it ideal for high-throughput pharmaceutical R&D and complex generics.

Agilent's broader analytical portfolio supports the full spectrum of pharmaceutical workflows - from early-stage discovery to manufacturing QA / QC. For applications involving GLP-1, therapeutic peptides, synthetic oligonucleotides and small molecule pharma, Agilent offers a wide range of technologies including liquid and gas chromatography, mass spectrometry, spectroscopy and informatics. These are supported by education, training and professional services that help scientists move confidently from sample understanding to data mining and decision-making. With a focus on innovation, scalability and reliability, Agilent continues to empower researchers and manufacturers to meet the evolving demands of modern analytical science.

“ Passion for Excellence”

GoodPrep®
Preparative & Production HPLC Systems

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

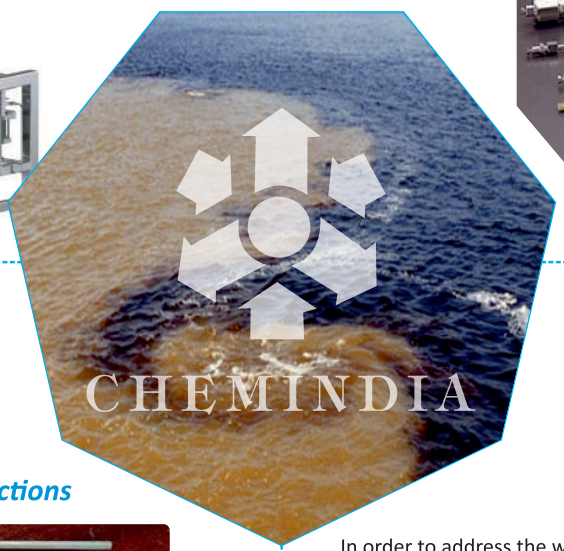


CHEMSIL HPLC COLUMNS - Make: M/s CHEMINDIA

- 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 .



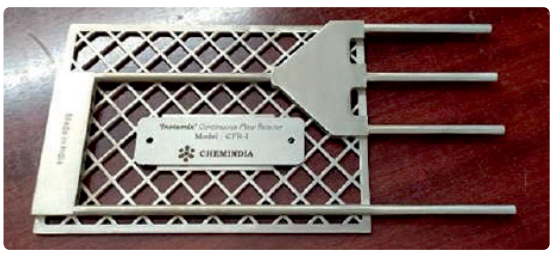
Mightysil HPLC Columns
Make: M/s KANTO Chemicals, Japan.



CHEMINDIA *“InstaMix”* Continuous Flow Reactors

Model:

CFR ***for Continuous Flow Reactions***



Principle of Mixing	: Split And Recombine (SAR) Principle
No. of Reactants	: 2 or 3 Reactants
Phases	: Liquid -- Liquid; Liquid – Gas; Liquid-- Slurry
Material Of Construction	: SS316L, Titanium, Inconel
Maximum Pressure	: 69 Mpa/690bar /10,000 psi
Internal Volume	: 3ml ~ 100ml
Flow rate	: 1ml/ min ~ 3 Liters/min
Production Capacity	: 5 t /year ~ 1500 t/ year
Temperature Range	: - 200 č to 400č
Heating / Cooling method	: Jacketed

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

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NanoPak-C™

All-Carbon Chromatography Products

Next Generation Performance At Significantly Lower Costs

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 µm bead sizes
- pH stable 0-14
- Temperatures to 100°C
- Uniform particle distribution
- Controllable pore size & porosity
- Customizable, Functionalizable
- Fully scalable from analytical to prep

Advantages of All-Carbon

- Efficient separation of **large molecules, highly polar & closely related structures** at **extreme pHs**
- Improved removal of **nuisance compounds & impurities**
- Durability, scalability, & reusability **reduces operation & maintainance costs**

ONE MEDIA FOR YOUR ENTIRE LC WORKFLOW



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Zaiput Partition Chromatography

Membrane-Based Liquid–Liquid Separation

Precise | Continuous | Scalable

KEY HIGHLIGHTS

- ✓ **Membrane-Based Phase Separation**
  - Selective wetted membranes
  - No emulsions, no phase mixing
- ✓ **True Continuous Processing**
  - Ideal for continuous flow chemistry
  - No batch setting or phase hold-up
- ✓ **High Separation Efficiency**
  - Clean phase cuts
  - Consistent, reproducible results
- ✓ **Wide Solvent Compatibility**
  - Organic–aqueous systems
  - Acidic, basic, and neutral streams
- ✓ **Compact & Modular Design**
  - Easy scale-up from lab to production
  - Plug-and-play integration



WHY ZAIPUT?

- No gravity dependency
- Handles emulsions effectively
- Minimal solvent loss
- Reduced footprint & processing time

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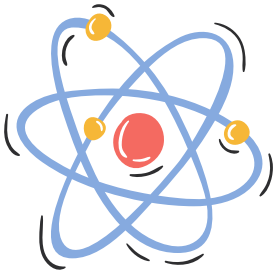
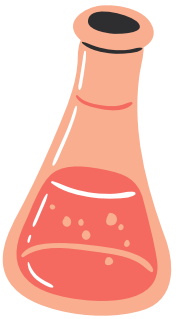


Vestro LABS

Where Chemistry meets Quality



ULTRA-LOW MOISTURE SOLVENTS (<20 50 ppm)

Anhydrous Acetonitrile (ACN)
Anhydrous Toluene
Anhydrous MDC (Dichloromethane)
TEA in Anhydrous ACN
3% DCA in Toluene (Oligo Cleavage & Detritylation Grade)

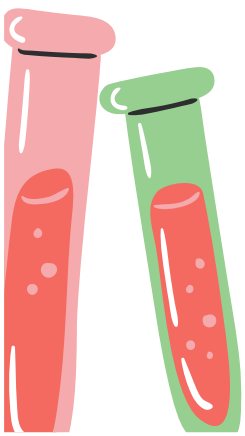
HPLC GRADE SOLVENTS

Acetonitrile
Methanol
IPA
Hexanes

(Available in SS316 Returnable Cans & Drums)

IDEAL FOR

- ✓ Peptide Manufacturers
- ✓ Peptide Purification Labs
- ✓ Preparative Chromatography
- ✓ Oligonucleotide Synthesis (RNA/DNA)
- ✓ Peptide & Oligo CDMOs
- ✓ Contract Purification Facilities



WHY VESTRO LABS?

- ✓ Fully Automatic Moisture-Controlled Systems
- ✓ <20 50 ppm Consistency Guaranteed
- ✓ SS316 Returnable Canisters
- ✓ GMP Standards & Full QC Documentation
- ✓ Approved Vendor: DRL, MSN, Granules, Neuland, YMC India, Daicel Chiral



For More Details
Contact: 7815903454

NOTES



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