

“Working on our supply chain to set benchmarks in quality and further enhance India’s position as a trusted clinical research supplier on a global scale”

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Abdos Lifesciences, which is committed to enabling science to thrive by delivering precision-engineered, high-performance laboratory consumables and instruments that meet the highest global standards, manufactures over 400 products across 12+ categories in automated cleanroom environments certified under ISO and CE-IVDR standards, ensuring sterility, traceability, and consistency crucial for decentralised and global clinical trials. Each product is barcoded, tamper-proof, and supported by easily accessible documentation such as Certificates of Analysis (COA), Technical Data Sheets (TDS). With a presence in more than 90 countries, Abdos Lifesciences ensures researchers worldwide receive reliable products and dedicated support, empowering science to advance seamlessly across borders and timelines. In an interview with BioSpectrum India Shrey Agarwal, CEO & Director, Abdos Lifesciences spoke to many issues including how the company is ensuring compliance with evolving global standards for products used in regulated clinical environments.



What contribution can high-quality Indian-made lab consumables and IVD products make to clinical research efficiency?

High quality lab consumables and IVD products can contribute significantly to clinical research efficiency both domestically and globally. Our products are the invisible foundation of clinical research efficiency, with every small improvement in the precision, sterility or reliability of our products, the improvements also result in faster, more accurate and reproducible scientific outcomes. From India’s perspective, our country’s bioeconomy is expanding rapidly and hit a \$165.7 billion valuation previous year. Moreover, The BioIT and Research Services sector grew 29 per cent YoY. The entire world is now viewing India as a global hub for bioinformatics, clinical development and data driven research, and the demands for highly precise and reliable laboratory consumables, which deliver the most accurate results will only grow.

At Abdos Lifesciences, we take pride in being part of this transformation. Our Indian made labware is built from the finest grades of polymers under cleanroom environments, designed to reduce sample loss and minimise error, certified from globally recognised standards to ensure trust, and have undergone multistage validation - from raw material testing to sterility assurance to guarantee reliance. Consistency is ensured in each batch through repeated testing and downtime ensuring accuracy and efficiency at every stage of research. With such measures, we ensure the highest quality of products at better values, available locally for India's bio economy aspirations, reducing reliance on imports and improving accessibility.

Apart from our user-friendly product features, design and packaging, we also offer transparency, technical assistance and full compliance within our value chain. From a global perspective, Indian consumables can contribute to being a credible, high-quality alternative to the traditional supply sources, and we have been working diligently to enhance our global reach and position Abdos as a brand that is trusted internationally and contributes to clinical research globally.

How is Abdos Lifesciences ensuring compliance with evolving global standards for products used in regulated clinical environments?

We employ a highly proactive approach to ensure compliance with the evolving standards for our products used in regulated clinical environments. We see it as not just as an obligation but as a commitment of responsibility, one which begins at the design phase and continues through every stage of production and delivery. It is something which we have consistently followed since the inception of our company as serving regulated clinical environments, even the smallest deviation can have far reaching implications, and we treat that responsibility with absolute seriousness.

Our facilities are certified under ISO 13485, ISO 9001, & WHO- GMP and our products comply with CE-IVDR and CDSCO requirements. Every raw material used in production meets FDA-grade specifications, ensuring compliance from the very foundation. Each batch undergoes multi-stage validation, raw materials are tested for leachables, extractables, and mechanical integrity, while finished goods are checked for sterility, endotoxin levels, bioburden, and dimensional accuracy. Every lot is barcoded for full traceability from sourcing to dispatch, creating a transparent chain of custody.

Our Quality team work continuously to anticipate evolving global requirements and identify and track certain local regulation requirements in the 90+ countries we serve. Through regular internal audits, retraining, and process reviews, we ensure we stay on top of the evolving requirements. Moreover, beyond product compliance, Abdos Lifesciences is deeply committed to ethical, environmental, and social compliance. We adhere to all applicable laws governing labour practices, environmental regulations, workplace safety, and invest in cleaner, more sustainable manufacturing.

For instance, our plant operates with controlled emissions, water recycling systems, and waste management protocols that reflect our belief that scientific progress must go together with environmental responsibility.

In what ways is Abdos Lifesciences enhancing India's positioning as a reliable supplier in the global clinical research market?

India's scientific and manufacturing ecosystem has evolved tremendously, and Abdos Lifesciences is proud to be part of that journey. As this landscape continues to grow and mature, our expansion has been guided by listening to our customers and responding to their needs. Our aim has always been to be recognised as a brand internationally, known for its reliable offering and prompt service. To ensure this, we have taken numerous measures. For instance, in Europe, we have expanded our presence with a warehouse in the Netherlands, ensuring faster access and localised support for our customers. We've also strengthened our global credibility through regional certifications such as CE-IVDR and UKCA, allowing us to meet international standards and serve customers with consistency and confidence.

As we have grown internationally, we have also ensured complete transparency in our value chain and offered a wide variety of technical support available for our end users, giving them confidence that they are associated with an ethical and responsive enterprise. Furthermore, to strengthen trust, we have conducted regular visits and also participated in leading international trade events such as ArabLab, MEDICA & Analytica, thereby strengthening our engagement with the global scientific community.

Another important step we have complied with is our commitment to sustainability, which remains a shared priority with our customers worldwide. From energy-efficient manufacturing and recyclable packaging to responsible environmental practices, we view sustainable growth as central to building long-term trust. Furthermore, we have also been actively working on

developments such as multilingual support, a more robust customer journey, and wider improvements in our supply chain internationally to set benchmarks in quality and further enhance our and India's position as a trusted clinical research supplier on a global scale.

Which innovations in lab consumables or instruments are you prioritising to meet the needs of next-generation clinical trials?

The needs of next-generation research are evolving faster than ever driven by decentralisation, digitalisation, and breakthroughs in cell and gene therapy, molecular diagnostics, and personalised medicine. At Abdos Lifesciences, we believe innovation must evolve at the same pace guided by agility, user understanding, and purpose.

Our focus has always been to create solutions that empower researchers to work with greater precision, reliability, and sustainability. Some of our key innovations include:

- **Gen2 Pipette Tip System** – our patented design for superior precision, secure fit, and ergonomic ease.
- **Elegant Pipette** – among the world's lightest mechanical pipettes, ensuring effortless and fatigue-free operation.
- **Maxi RCF Tubes** – crafted from high-purity plastics capable of withstanding extreme centrifugal forces.
- **95 kPa Sample Containers** – designed for safe and compliant sample transport across decentralised trials.
- **High-Clarity Petri Dishes** – optimised for consistent growth and enhanced visibility.
- **DUOLOOP System** – a distinctive loop design that streamlines microbiological workflows while preventing contamination.

Beyond product innovation, sustainability and manufacturing excellence remain at the heart of our philosophy. Our facilities operate with energy-efficient processes, use recyclable packaging, and employ robust environmental monitoring systems ensuring every product we create is as responsible as it is reliable.

That's why me and my team stay closely connected with our users meeting scientists, visiting laboratories, attending global conferences, and learning directly from real-world challenges. These conversations help us anticipate where research is headed and make informed, meaningful additions to our product portfolio.

Ultimately, our vision is to stay in sync with the future of science combining innovation, sustainability, and user insight to ensure Abdos continues to be a trusted partner in advancing the next era of global clinical research.

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