

IPC Successfully Conducts 2nd Hands-on Training on Ethylene Glycol (EG) and Diethylene Glycol (DEG) Determination in Oral Liquid Preparations by Gas Chromatography

Importance of Strengthening Analytical Capabilities of Regulatory Laboratories for Ensuring the Quality, Safety and Efficacy of Medicines Emphasized

Participants from Haryana, Goa, Odisha, West Bengal, Assam and Meghalaya Receive Practical Training on Advanced Analytical Methods for Ensuring Medicine Safety and Quality

Training Programme Strengthens Capacity of State Drug Testing Laboratories for Effective Implementation of Indian Pharmacopoeia Standards

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The Indian Pharmacopoeia Commission (IPC) successfully conducted the 2nd Hands-on Training Programme on the Determination of Ethylene Glycol (EG) and Diethylene Glycol (DEG) in Oral Liquid Preparations by Gas Chromatography (GC) from 22nd to 23rd June 2026 at its campus in Ghaziabad.

The training programme was inaugurated by Dr V. Kalaiselvan, Secretary-cum-Scientific Director, IPC, in the presence of Shri Rajeev Bhargava, Deputy Drugs Controller (DDC), Department of Drugs Control, Delhi, who graced the occasion as the Guest of Honour. During the inaugural session, the importance of strengthening analytical capabilities of regulatory laboratories for ensuring the quality, safety, and efficacy of medicines was emphasized.

The two-day programme brought together participants from six states including Haryana, Goa, Odisha, West Bengal, Assam, and Meghalaya, and provided intensive practical training on the determination of EG and DEG in oral liquid formulations using Gas Chromatography. The participants received hands-on exposure to sample preparation, instrument operation, calibration, analytical method implementation, chromatogram interpretation and data analysis.

Ethylene Glycol (EG) and Diethylene Glycol (DEG) are highly toxic substances that are not permitted in pharmaceutical formulations. These contaminants may be introduced through adulterated or substandard excipients such as glycerin, propylene glycol, sorbitol, and polyethylene glycol. Even trace quantities can

pose serious health risks, including acute kidney injury, central nervous system depression, and death. Therefore, their accurate detection, quantification, and control are essential for safeguarding public health and ensuring pharmaceutical quality.

The training programme was organized in the context of Amendment List 09 to IP–2022, effective from 10th October 2025, which mandates testing for Ethylene Glycol (EG) and Diethylene Glycol (DEG) in all oral liquid formulations. Through this initiative, IPC continues to support the effective implementation of Indian Pharmacopoeia standards and strengthen the analytical preparedness of State Drug Testing Laboratories across the country.

The technical sessions covered the scientific basis of DEG and EG contamination, regulatory requirements, analytical methodology, and practical application of Gas Chromatography for routine testing. Participants also gained insights into potential sources of contamination and the critical role of quality control measures in preventing the entry of toxic contaminants into pharmaceutical products.

The programme significantly enhanced the technical competence of government drug analysts and facilitated knowledge sharing among regulatory laboratories. The hands-on approach enabled participants to develop practical skills required for accurate analysis and compliance with pharmacopoeial requirements.

The Indian Pharmacopoeia Commission remains committed to providing technical support, capacity building, and specialized training to State and Union Territory Drug Testing Laboratories to facilitate effective implementation of Indian Pharmacopoeia standards and strengthen the regulatory framework for ensuring the availability of safe, effective, and quality medicines to the public.

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HFW/IPC Holds 2nd Training on GC-Based EG & DEG Determination/24June 2026/1

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