Chrom Africa

Bringing Scientific & Technical Resources to the Africa Continent

NUCLEAR MAGNETIC RESONANCE (NMR) TRAINING FOR POLYMER AND IDENTIFICATION

4th - 8th MAY 2026

Polymer characterization by Nuclear Magnetic Resonance Spectroscopy (NMR) provides detailed structural information for product development and quality control considerations (QC). Expert evaluation of polymers by specialist techniques is essential in order to ensure product integrity and for quality control demands

Day 1	4-05-26	EVENTS
09.00 – 09.30 am		**Registration and Climate Setting** **Overview and introduction to NMR**
09.30 – 10.00 am		• NMR Instrumentation • Introduction to NMR Spectroscopy • Theory of NMR Spectroscopy
10.00 – 10.30 am		**TEA- BREAK**
10.30 – 12.30 p.m		• Calibration the instrument for accuracy • Choice of the appropriate NMR probe (solid/liquid).
12-30 – 14.00 p.m		**LUNCH - BREAK**
14.00 – 16.00 p.m		• Overview of possible states and morphologies of synthetic polymers: • a) dilute solution, (b) concentrated solution or melt, (c) network (gel or elastomer), (d) phase-separated block copolymer, (e) semi crinoline polymer. • How to obtain representative samples from various sources

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Our Training Partners

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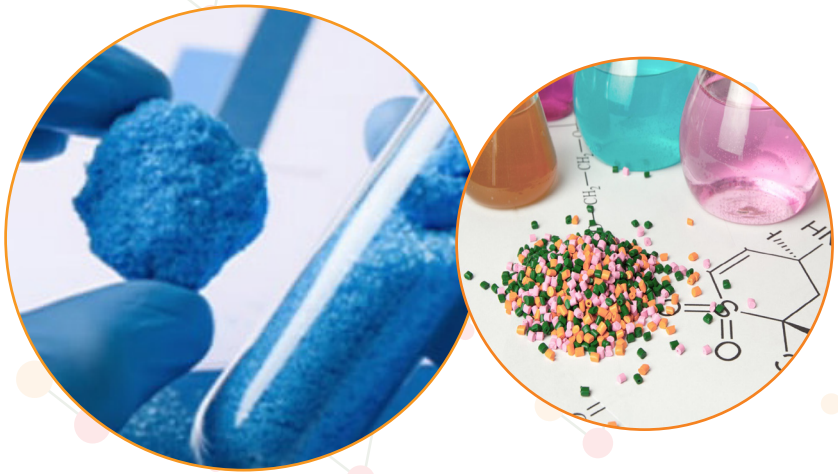
Day 2	5-05-26	EVENTS
9.00 – 10.30 am		• Applications of NMR for Polymer analysis • 1H NMR spectroscopy: Chemical Shifts and Spin-Spin Splitting
10.30 – 11.00 am		TEA- BREAK
11.00 – 12.30 p.m		• Applications of 1H NMR spectroscopy
12-30 – 14.00 p.m		LUNCH - BREAK
14.00 – 16.30 p.m		• 13C NMR spectroscopy - Chemical Shifts, DEPT, APT • Applications of 13C NMR spectroscopy

Day 3	6-05-26	EVENTS
9.00 – 10.30 am		• Introduction to two-dimensional NMR Spectroscopy
10.30 – 11.00 am		TEA- BREAK
11.00 – 12.30 p.m		• Applications of 2D NMR spectroscopy
12-30 – 14.00 p.m		LUNCH - BREAK
14.00 – 15.30 p.m		• Acquisition, Processing and Interpretations of NMR data

Day 4	7-05-26	EVENTS
9.00 – 10.30 am		NMR in qualitative and quantitative analysis of Natural and synthetic polymers
10.30 – 11.00 am		TEA- BREAK
11.00 – 12.30 p.m		Process NMR data through Fourier transformation, baseline correction, and phasing
12-30 – 14.00 p.m		LUNCH - BREAK
14.00 – 15.30 p.m		• Interpret NMR spectra to identify and quantify compounds

Day 5	8-05-26	EVENTS
9.00 – 10.30 am		• Compare acquired data to reference spectra and databases.
10.30 – 11.10 am		TEA- BREAK
11.00 – 12.30 p.m		• Apply statistical analysis and multivariate methods for authenticity assessment. • Course overview
12-30 – 14.00 p.m		LUNCH - BREAK
14.00 – 15.00 p.m		Directors speech and issue of certificates



Deadline: 21st April 2026

4th - 8th MAY 2026

Cost Kes. 125,000.00 or USD 1,200.00 exclusive of taxes

NAIROBI

Online Training available at: www.chromafrica.com

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