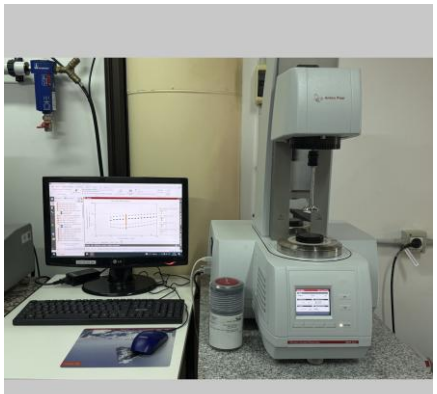
EQUIPMENT CARD

PLAPIQUI



#5014

Rotational Rheometer (Anton Paar, Evolution MCR 302e)

DESCRIPTION

Laboratory instrument for rheological characterization of liquids, semi-solids, and soft solids using rotational and oscillatory measurements. Enables determination of viscosity, viscoelastic properties, and mechanical response under controlled stress, strain, and temperature conditions.

MAIN FEATURES

- Torque: 0.5 nNm–230 mNm; resolution <0.1 nNm
- Normal force: ±50 N; angular velocity: up to 314 rad/s (3000 rpm)
- Frequency: 10^{-7}–628 rad/s; angular resolution: 0.05 µrad
- Modes: rotational, oscillatory, and DMA (torsion and tensile)
- Automatic gap control (AGC/AGS); RheoCompass™ software

MAIN APPLICATIONS

- Rheological characterization of food, pharma, cosmetics, and polymers
- Viscosity, flow behavior, viscoelasticity, gelation, and thixotropy
- Research, formulation development, and quality control

ASSOCIATED CAPABILITY AND SERVICE

2002 - 3005

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