

TECHNICAL SPECIFICATION

# CALEVA MULTI LAB SCIENTIFIC (MLS)



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# MULTI LAB SCIENTIFIC (MLS)



Gain deeper insights into process parameters and accelerate your formulation development with the all-in-one bench-top mixer, extruder and spheronizer from Caleva. With tool-less technology and automatic data capture, you can complete multiple experiments in a day and achieve reliable repeatability across multiple iterations.

- ✓ Automatic Data Capture
- ✓ Recipe Management
- ✓ USB Microscope Imaging
- ✓ Ambient & Process Temperature Measurement
- ✓ Motor Load % Reporting
- ✓ Speed Reporting

**Electrical Supply:** 1ph 230V or 110V

**Connectivity:** 2 x USB3, 2 x USB2

**Base Machine Mass:** 34kg

**Base Machine Dimensions:** 505 (W) x 600 (D) x 420 (H) mm



Certificate Number: 1503



## Mixer Attachment



**Processing capacity:** 15 to 40g / 30 to 80ml (formulation and bowl dependent).

**Blade rotation speed:** Primary Blade 10 to 250 RPM

**Mixer Bowl:** Intermeshing counter rotating blades for high shear applications. Other bowl options include half bowl for scarce materials, sigma bowl for higher viscosity materials and water jacketed options.

## Extruder Attachment



**Processing capacity:** 10 to 80g (formulation dependent).

**Screw speed:** 90 to 150 RPM

**Die plate:** One Ø1mm x 1mm supplied as standard.

Other die options available: Ø0.5mm to Ø3.0mm holes including lobed profiles and a range of die thicknesses.

## Spheronizer Attachment



**Processing capacity:** 10 to 80g (formulation dependent).

**Disc Speed:** 500 to 4500 RPM

**Spheronization Disc:** One 3x3mm crosshatch serration disc supplied as standard.

Other disc patterns are available.

