

TA-CLT001 – Capsule Loop Tensile Fixture

The Capsule Loop Tensile fixture is used to evaluate the extensibility of capsules that contain liquid or granulated material. Industries that make use of this fixture include pharmaceutical, nutraceutical, medicinal, food, chemical, and many others. The basic test method stretches the capsule half shell along the direction of the diameter and measures the magnitude of tensile force needed to rupture the wall of the capsule.

The TA-CLT001 fixture has two components. The Lower CLT Assembly attaches to the instrument base. The Upper CLT Assembly screws onto the CT3 probe coupling. The Upper CLT Assembly is lowered to a position, which brings the pins on both the Upper and Lower Assemblies adjacent to one another and facing the same direction. The capsule half shell is placed over the two pins. The Upper CLT Assembly is raised slightly to prevent the capsule from sliding off the pins. The test is now ready to proceed.

Experiment with choice of probe speed for the Upper CLT Assembly to evaluate how this affects the magnitude of tensile force needed to achieve rupture.

