



The gentleMACS™ Dissociator is a benchtop instrument for the semi-automated dissociation of tissues into single-cell suspensions or thorough homogenates. A single sample or two samples in parallel can be processed. Two types of unique gentleMACS Tubes used with the instrument enable the time-saving and easy dissociation or homogenization of tissues in a closed system. The instrument offers optimized gentleMACS Programs for a variety of specific applications. Special protocols have been developed for various tissues. The standardized tissue dissociation or homogenization procedures make for reliable and reproducible results.

Applications

Optimized, pre-set gentleMACS Programs have been developed for easy dissociation of tissues into single-cell suspensions, including:

- mouse or human tumor
- mouse or rat neonatal heart
- neural tissue
- mouse spleen, lung, lamina propria, muscle, epidermis, or liver
- mouse or human skin
- and more

Also, programs have been developed for the homogenization of tissues, for:

- total RNA or mRNA isolation from fresh or frozen samples
- protein extraction
- determination of bacterial or viral load
- mitochondria isolation