

Product No. 17087

Accumax™

Accumax™ is formulated at a concentration that is ready to use, once defrosted.

Accumax™ contains proteolytic and collagenolytic enzymes, and can be used to create single cell suspensions from clumped cell cultures and to dissociate spheroids.

Typical Protocol for Cell counting / Dissociation of spheroids Using Accumax™

Thawing Accumax™ :

Thaw Accumax™ at 4°C overnight or in a cool water bath. Do NOT thaw at 37°C.

A thawed bottle of Accumax™ can be removed from the refrigerator and immediately applied to cells. It does not need to be, and should NOT be pre-warmed to 37°C.

Cell counting

1. Place a 0.5 or 1.0 mL volume of clumped cells in a tube.
2. Add an equal volume of Accumax™ to the sample, and incubate for 5 – 10 minutes at room temperature.
3. Count cells using standard procedures.

Dissociation of spheroids

1. If the spheroids are attached to the tissue culture flask, the media should be poured off and a quantity of cold Accumax™ is added to the flask to sufficiently cover the attached layer. A few minutes is required for the spheroids to detach. Proceed to step 3.
2. Free floating spheroids should be poured into a centrifuge tube, and precipitated by gentle centrifugation. The media should be aspirated from the tube.
3. Add cold Accumax™ into the centrifuge tube.
A sufficient volume of Accumax™ should be added to achieve free-floating spheroids. (e.g. Add 15 – 20 mL of Accumax™ into a 50 mL centrifuge tube.)
The required Accumax™ volume depends on the size and quantity of the spheroids.
4. Shake the tube gently on a tube rocker and observe the floating spheroids over time, checking every 5 minutes. Shaking should be performed at room temperature (not 37°C).
5. The structure of the spheroids should start to break down to resemble loose flaps of tissue. At this point, try gently pipetting the flaps up and down several times to further dissociate the spheroids. Repeat this process every few minutes until the spheroids have dissolved.