

Liberase DH Research Grade

Cat. No. NATE-1895

Lot. No. (See product label)

Introduction

Description Liberase DH Research Grade contains highly purified Collagenase I and Collagenase II. These two collagenase isoforms are blended in a precise ratio to each other, and with a high concentration of Disperse, a non-clostridial neutral protease.

Applications Liberase DH (Disperse High) Research Grade is used for the dissociation of a broad range of tissue types, where high purity of the enzyme blend is necessary for high cell yield and viability. Bacterial by-products, such as endotoxins, are reduced up to several thousand-fold. It has been used for the digestion of metastatic tumor fragments. It has been used for the enzymatic detachment of human embryonic stem cells colonies.

Synonyms Liberase DH Research Grade; Liberase DH; Liberase; High Disperse concentration

Product Information

Form Lyophilized powder

Optimum pH 7.4

Optimum temperature 35-37 °C optimum reaction temp.

Stabilizers Calcium

Usage and Packaging

Reconstitution Reconstitute the lyophilized enzyme with injection-quality sterile water or tissue-dissociation buffer. Do not add serum or other components that may influence enzyme activity, such as albumin or protease inhibitors, to the dissociation buffer. Enzyme stability is reduced at higher concentrations and warmer temperatures (4 °C). Avoid both the above conditions. Reconstitute the entire vial. Do not weigh individual aliquots of the lyophilizate. The introduction of moisture into the vial results in a decline in enzymatic activity. Place vial on ice to rehydrate the lyophilized enzyme. Gently agitate the vial at 2 to 8 °C until enzyme is completely dissolved (max. 30 min). Depending on the type of tissue-dissociation buffer used to dissolve Liberase Research Grade Purified Enzyme Blends, slight precipitations may be observed which readily dissolve in the diluted working solution and have no influence on enzyme activity. Remove an aliquot of the stock solution to prepare the working solution
Reconstitution volume: 2 ml (1 vial with 5 mg-10 mg pack size), 10 ml (1 vial with 50 mg-100 mg pack size)
Collagenase WÄ¼nsch (units/ml): 13 (1 vial with 5 mg-10 mg pack size), 26 (1 vial with 50 mg-100 mg pack size)
Total Collagenase concentration [mg/ml]: 2.5 (1 vial with 5 mg-10 mg pack size), 5.0 (1 vial with 50 mg-100 mg pack size)

Storage and Shipping Information

Storage Store unused stock solution in single-use aliquots at -15 to -25 °C. Avoid repeated freezing and thawing!