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32-2924: Urease Recombinant Protein

Description

Source : Escherichia Coli.
The mutant Urease from microorganism source, showing shifted substrate affinity to urea. It was designed wildtype coding gene from microorganism.
The subunit structure is very similar to well known microbial urease. Please refer to published literature such as JBC 262, 5963-67 (1987). It is composed of multi-subunits and shows a bit complex protein structure (alpha 2 Beta 4 Gamma 4) as compared to plant urease rUrease is genetically designed unique mutant having shifted high Km to urea, which is suited material to kinetic urea assay with wide measurable range. The enzyme comprises of three different subunits to make complete fully active form, 60.3 kD a subunit, 11.7 kD b subunit and 11.1 kD g subunit respectively.

Product Info

Amount :	5 mg
Purification :	Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Content :	Each mg of protein contains 420µg Potassium Phosphate and 30µg EDTA Na2.
Storage condition :	Urease although stable at 4°C for 3 weeks, should be stored desiccated below -18°C. Please prevent freeze-thaw cycles.

Application Note

It is recommended to reconstitute the lyophilized Urease in sterile 18MΩ-cm H2O. The activity was found to be 141U/mg powder.