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DATA SHEET

Diastase (Alpha-Amylase Kit)
Digestive Enzyme Pretreatment

Cat. Nos. EK004-5KE

Doc. No. 932-EK004-5KE Rev. No. B
Effective Date : 05-Aug-2020

REAGENTS SUPPLIED
Store at 2-8°C

- HK718—Lyophilized Diastase Powder, purified by crystallization , 4 vials of 0.11gm Diastase
- HK719—Diastase Reconstitution Buffer with 0.09% sodium azide, 4vials of 10ml each

Diastase is a group of enzymes which catalyzes the breakdown of starch into maltose. Alpha amylase degrades starch to a mixture of the disaccharide maltose, also known as tri-saccharide maltotriose, which contains three α (1-4)-linked glucose residues, and oligosaccharides known as dextrins that contain the α (1-6)-linked glucose branches. Pretreatment conditions should be tested extensively and validated in the user's laboratory.

Method of Use

1. Remove one vial of lyophilized diastase and one vial of reconstitution buffer from refrigerator and allow them to come to room temperature.
2. Pour entire contents of reconstitution buffer into the lyophilized diastase and mix gently to dissolve the powder. Final concentration of diastase is 11.4 mg/ml.
3. For maximum enzymatic activity, use fresh solution. Otherwise, refrigerate working diastase solution at 2-8ºC when not in use. When stored and handled properly, the solution is stable for up to 7 days.

Protocol

The diastase (Alpha-amylase) digestion procedure is useful as an aid in the evaluation of glycogen storage disease. Add enough working solution to entirely cover the tissue section and incubate at room temperature for 30 minutes. Tap-off the solution and repeat the previous step. Rinse well with PBS.

Precaution
Reconstitution buffer contains sodium azide at concentrations of less than 0.1%. Sodium azide is not classified as a hazardous chemical at the concentration of this product. However, toxicity information regarding sodium azide at the product's concentration has not been thoroughly investigated. For more information, a Material Safety Data Sheet (MSDS) for sodium azide in pure form is available upon request.

For In-Vitro Diagnostic Use

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