

NADH DIAPHORASE Stain Lyophilized powder for histoenzymatic reaction 30 – 30113LY

IVD In-vitro diagnostic medical device **CE**

CND Code: W01030708

working solution volume 10 ml
procedure time 31 minutes
storage temperature..... -20°C
complementary equipment..... not requested

Expected aim	Product for the preparation of cyto-histological samples for optical microscopy.																												
Application	Cryostatic sections of 8 micron of human skeletal muscle. For distinguishing type 1 and type 2 muscle fibers. Often it is correlated with the ATPase procedure.																												
Method	<ol style="list-style-type: none"> 1) Put restoration solution (NADH C) into lyophilized powder (NADH B). 2) Shake until dissolution. 3) Put NADH A into restored NADH B 4) Dip the section in reconstituted NADH solution and incubate at 37°C 30 minutes 5) Rinse in distilled water 3 changes 6) Dip in acetone 30, 60 and 90% 30 seconds each 7) Dehydrate in absolute ethanol, clear and mount. 																												
Results	Positive NADH diaphorase enzymatic activity grey-blue Type 1 fibers..... dark blue Type 2 fibers..... light blue																												
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Warning and precaution	The product must be used exclusively by specialized technical operators. The product is classified as hazardous. Read with attention the information written on the label (dangerous symbols, risks and safety phrases). Consult always the safety data sheet where the information about the risks of the preparation, precautionary measures during use, first aid and disposal are available. Do not use if primary packaging is damaged.																												
Storage	Store the preparation at -20°C. Keep the containers tightly closed.																												
Stability	When making aliquots of the product and freezing them at -20°C, Bio-Optica does not respond for the loss of activity resulting from this practice. If you wish to arrange 1 ml vials to be frozen, it is very important not to mix reagent A and reagent B until use. Finally prepare 0.7 ml of reagent B and 0.3 ml of reagent A. Product validity: 1 year.																												
Disposal	Hazardous preparation: observe all state and local environmental regulations regarding waste disposal.																												

References

- Scarpelli DG, Hess R, Pearse AGE. The cytochemical localization of oxidative enzymes. I. Diphosphopyridine nucleotide diaphorase and triphosphopyridine nucleotide diaphorase. J Biophys Biochem Cytol. 1958;4:747-752.
- Wattenberg LW, Leong JL. Effects of coenzyme Q10 and menadione on succinic dehydrogenase activity as measured by tetrazolium salt reduction. J Histochem Cytochem. 1959;8:296-703

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