

ATPase Stain Lyophilized powder for histoenzymatic reaction 30 – 30125LY

IVD In-vitro diagnostic medical device (€

CND Code: W01030708

Expected aim

Product for the preparation of cyto-histological samples for optical microscopy.

Application

Cryostatic sections of 8 micron of human skeletal muscle. Typing of the muscle fibres.

Method

- 1) It is recommend to let the reagents reach room temperature before starting the procedure.
- 2) The staining jars should be marked with 4.3 4.7- 10.4
- 3) Sections must be marked with the same number
- 4) Incubating medium preparation (reagents 4,5): put about 10 ml of reagent 5 (restoration solution) into the lyophilized powder (reagent 4). Shake until dissolution and add the obtained solution to reagent 5 container to obtain 30 of incubating medium.
- 5) Introduce the 4.3 slide into the reagent 1 container. Incubate the 4.3 section at 37°C, 10 minutes.
- 6) Introduce the 4.7 slide into the reagent 2 container. Incubate the 4.7 section at 37°C, 10 minutes.
- Introduce the 10.4 slide into the reagent 10.4 container. Incubate the 10.4 section at 37°C, 10 minutes.
- Drip the slides
- 9) Put the sections into the 5 containers (incubating medium). Incubate at 37°C 30 minutes.
- 10) Wash the sections with distilled water.
- 11) Put the sections into the reagent 6 containers. Incubate 2 minutes.
- 12) Repeat the step using the second change of cobal chloride solution (reagent 6).
- 13) Wash well with distilled water
- 14) Put the sections into the reagent 7 containers. Incubate 1 minute.
- 15) Wash well with distilled water.
- 16) Dehydrate starting from alcohol 90%, clear and mount.

Results

Nuclei	blue
10.4 Section – preincubation at pH 10.4	
Type 1 fibers	Beige/white
Type 2A fibers	Brown/black
Type 2B fibers	
4.7 Section – preincubation at pH 4.7	
Type 1 fibers	Brown
Type 2A fibers	
Type 2B fibers	Brown/black
4.3 Section – preincubation at pH 4.3	
Type 1 fibers	Brown
Type 2A fibers	Beige/white
Type 2B fibers	•
**	9

Producer: Bio-Optica Milano s.p.a.



Components

Components	CAS	CE	Index
A - REAGENT 11 x 30 ml			
Acetate buffer pH 4.3	-	-	-
B - REAGENT 21 x 30 ml			
Acetate buffer pH 4.7	-	-	-
C - REAGENT 31 x 30 ml			
glycin/NaOH buffer pH 10.4	-	-	-
D - REAGENT 43 x 15 mg			
Adenosine 5'-triphosphate lyophilized powder	-	-	-
E - REAGENT 53 x 30 ml			
Adenosine 5'-triphosphate lyophilized powder restoration solution	-	-	-
F - REAGENT 66 x 30 ml			
Cobalt chloride 2% solution	7791-13-1	231-589-4	-
G - REAGENT 73 x 30 ml			
Ammonium sulfide solution	12135-76-1	235-223-4	-

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 reagent 4 at -20°C and the reagents 1,2,3,5,6,7 at 2-8°C; you can store all the reagents at -20°C but equilibrate them to room temperature before use. 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.

Product validity: 1 year.

Disposal

Hazardous preparation: observe all state and local environmental regulations regarding waste disposal.

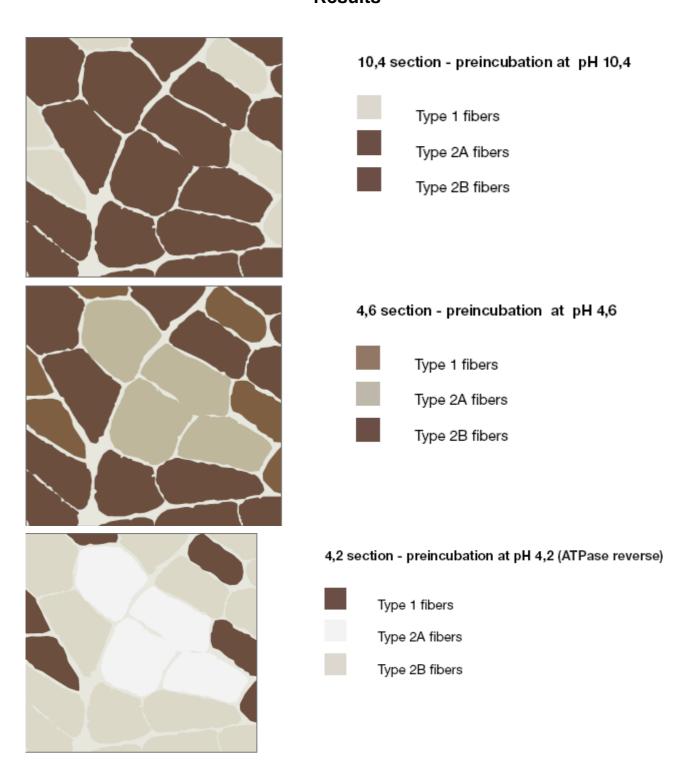
References

Brooke MH, Kaiser KK. Some comments on the histochemical characteristics of muscle adenosine triphosphatase. J Histochem Cytochem. 1969;17:431-432. Brooke MH, Kaiser KK. Three "myosin adenosine triphosphatase" systems: the nature of the pH lability and sulphydryl dependence. J Histochem Cytochem. 1970;18:670-672. Padykula HA, Herman E. The specificity of the histochemical method for adenosine triphosphatase. J Histochem Cytochem. 1955;3: 170-195

Date of issue: November 2013



Results



Producer: Bio-Optica Milano s.p.a. Page 3 di 3