BIOTnA Biotech
BIOSCIENCE FOR THE LAB.

Prussian Blue Stain Kit

Product name: Prussian Blue Stain Kit
Catalog No.: TASS15

Introduction:

Prussian blue reaction involves the treatment of sections with acid solutions of ferrocyanides. Any ferric ion (+3) present in the tissue combines with the ferrocyanide and results in the formation of a bright blue pigment called Prussian blue, or ferric ferrocyanide. This is one of the most sensitive histochemical tests and will demonstrate even single granules of iron in blood cells.

Form:

Catalog No.	Size
TASS15	125ml

Kit Contents (for 125ml kit):

Kit Contents	Format	Recommend time	Storage
Hydrochloric acid	Unmixed, 65ml	20 minutes.	25-28℃
Potassium ferrocyanide	Unmixed, 65ml	20 minutes.	25-28℃
Nuclear fast red	Ready to use, 125ml	10 minutes.	25-28℃
Control slide x 2	spleen	~	25-28℃

Note:
1. Preparing 5-7um thick sections will be more satisfactory.
2. Mix equal parts of hydrochloric acid and potassium ferrocyanide solution before use.

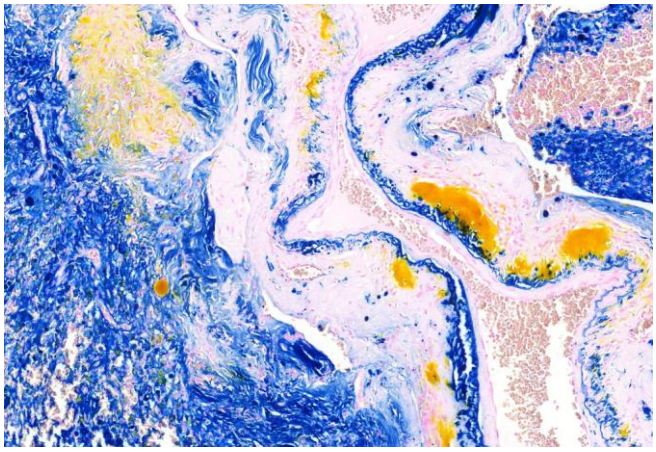
Staining Protocol Recommendations:

1. Deparaffinize and hydrate sections to distilled water.
2. Mix equal parts of hydrochloric acid and potassium ferrocyanide prepared immediately before use. Immerse slides in this solution for 20 minutes.
3. Wash in distilled water, 3 changes.
4. Counterstain with nuclear fast red for 5 minutes.
5. Rinse twice in distilled water.

6. Dehydrate through 95% and 2 changes of 100% alcohol.
7. Clear in xylene, 2 changes, 3 minutes each.
8. Coverslip with resinous mounting medium.

Results:

Iron (ferric form) ---------- bright blue
Nuclei ---------- red
Cytoplasm ---------- pink



Positive Controls:

Blood cell

Storage and Stability:

Please read the kit contents and follow the storage condition. The user must validate any other storage conditions. When properly stored, the reagent is stable until the date indicated on the label. Do not use the reagent beyond the expiration date. If unexpected results are observed which cannot be explained by variations in laboratory procedures and a problem with the reagent is suspected, contact Technical: info@biotna.net