

## Practical-9

# PERL'S PRUSSIAN BLUE REACTION



SCIENCEphotOLIBRARY

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- **This demonstrates ferric salt (haemosiderin).**
- Pigments are found normally or pathologically in tissues.
- **Stain Solutions:**
- 2% potassium ferrocyanide and 2% hydrochloric acid.
- Neutral red.

# PERL'S PRUSSIAN BLUE REACTION Method

<b>PPROCEDURE:</b>		
1. De-wax to	Xylene	3 min
	100%	2 min
	95%	1 min
	70%	1 min
2. Take section to	Distilled water	
3. Apply a fresh solution	2% Potassium ferrocyanide and 2% Hydrochloric acid	15mins.
4. Wash thoroughly	Distilled water	
5. Counter stain in	Neutral red	2-3min
6. Wash thoroughly	Distilled water	
7. Blot with	Filter paper (dehydration)	
8. Dehydrate in	100% alcohol	10 secs.
9. Final dehydration in	100% alcohol	15 secs
10. Clear in 2 changes in	Xylene	2mins Each jar
11. Mount in	DPX, cover slipping	

RESULTS:  
Ferric iron --- Blue  
Nuclei -----Red

The reaction is: Ferric salt + potassium ferrocyanide = ferric ferrocyanide.

