Supplementary materials

Herein, we provide a detailed description of the solutions and protocol for the staining method that includes a combination of periodic acid Schiff's and Mallory's trichrome. The description was provided by P. Witthames, and the method was applied in Witthames and Greer Walker (1995) and in Witthames et al. (2010).

Preparation of special solutions

Periodic acid Schiff's

Quantity	Item and comment	
200 mL	Reverse osmosis water—heat to just off boiling, stir, and add	
1 g	Pararosaniline	
2 g	Potassium metabisulphite—after cooling to 50°C, stir Concentrate 35% HCl—add after cooling to room temperature Activated charcoal overnight in a stoppered flask	
2 mL		
2 g		
	Filter through a Whatman no. 1 filter. Stable when refrigerated for several	
	weeks. Discard when pink. May be used several times.	

Mallory's trichrome

Quantity	Item and comment
200 mL	Reverse osmosis water
1.0 g	Aniline blue
4.0 g	Orange G
4.0 g	Ocalic acid

Protocol

Solution or action	Time
5% periodic acid	4.5 min
Wash 5 times thoroughly with distilled water	_
Schiffs reagent	60 min
Wash running tap water	10 min
1% acid fuchsin	1 min
Wash distilled water	30 s
Wash distilled water	30 s
1% phosphomolybdic acid	1 min
Wash distilled water	10 s
Mallory's trichrome	15 s
Distilled water	10 s
90% industrial methylated spirits (IMS)	5 s
100% IMS	5 s
100% IMS	5 s
1:1 ratio of IMS to Citroclear	5 s
Citroclear	5 s
Citroclear	5 s
Mount with DPX, dry at 40°C overnight	_
	5% periodic acid Wash 5 times thoroughly with distilled water Schiffs reagent Wash running tap water 1% acid fuchsin Wash distilled water Wash distilled water 1% phosphomolybdic acid Wash distilled water Mallory's trichrome Distilled water 90% industrial methylated spirits (IMS) 100% IMS 1:1 ratio of IMS to Citroclear Citroclear Citroclear

References

Witthames, P. R., and M. G. Walker

1995. Determinacy of fecundity and oocyte atresia in sole (*Solea solea*) from the Channel, the North Sea and the Irish Sea. Aquat. Living Resour. 8:91–109. https://doi.org/10.1051/alr:1995007

Witthames, P. R., A. Thorsen, and O. S. Kjesbu.

2010. The fate of vitellogenic follicles in experimentally monitored Atlantic cod *Gadus morhua* (L.): application to stock assessment. Fish. Res. 104:27–37.

https://doi.org/10.1016/j.fishres.2009.11.008