Usage procedure for:

The Avantik Optik® Type 1
H&E Staining Procedure

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The Optik family of H&E stains is the premier group of Avantik staining reagents designed to produce precise, consistent H&E staining with crisp delineation. The following are guidelines that will have an effective staining window of 2 to 5 minutes. Developed as progressive stains, the intensity of nuclear staining will increase as the time increases. The hematoxylin and eosin stains will have an expected throughput of 2,000-2,500 slides per 500mL bottle. Actual results may vary from lab to lab depending on the staining equipment used, control of carry over into each solution, and length of time stains are left exposed.

Optik Type 1 Recommended Staining Procedure

Station	Solution	Time	Station	Solution	Time
1.	Xylene*	3 minutes	14.	Running H2O Wash	1 minute
2.	Xylene*	3 minutes	15.	70% to 80% Ethanol	45 seconds
3.	Xylene*	3 minutes	16.	Optik Eosin	30-90 seconds
4.	100% Ethanol	1 minute	17.	100% Ethanol	1 minute
5.	100% Ethanol	1 minute	18.	100% Ethanol	1 minute
6.	100% Ethanol	1 minute	19.	100% Ethanol	1 minute
7.	70% to 80% Ethanol	1 minute	20.	Xylene*	1 minute
8.	Running H2O Wash	1 minute	21.	Xylene*	1 minute
9.	Optik Hematoxylin	2-5 minutes	22.	Xylene*	1 minute
10.	Running H2O Wash	3 minutes			
11.	Optik Clarifier	30-90 seconds			
12.	Running H2O Wash	1 minute			
13.	Optik Bluing Solution	1 minute			

Final Step: Mount and Coverslip with Covermount.

* Ultraclear may be used in place of Xylene.

Times in Xylene substitutes may need to be extended.

The hematoxylin and eosin stains can have an expected throughput of 2,000-2,500 slides per 500mL bottle. Actual results may vary from lab to lab depending on the staining equipment used, control of carry over into each solution, and length of time stains are left exposed. As a general rule, we recommend changing the hematoxylin and eosin stains once per week if throughput has not been reached. Clarifying and Bluing solutions should be changed more often.