

# Usage procedure for:

## The Avantik Optik® Type 2

### H&E Staining Procedure



19 Chapin Rd - Building C  
Pine Brook, NJ 07058

t: 800.783.9424  
e: [info@avantik-us.com](mailto:info@avantik-us.com)

[avantik-us.com](http://avantik-us.com)

The Optik Staining system is designed to produce precise, consistent H&E staining with crisp delineation. Staining times in hematoxylin and eosin will depend on the use and the personal preference of the diagnosing physician. The following are guidelines that will help establish a custom protocol for your specific needs.

### Optik Type 2 Recommended Staining Procedure

Station	Solution	Time	Station	Solution	Time
1.	Xylene*	3 minutes	14.	Running H2O Wash	1 minute
2.	Xylene*	3 minutes	15.	80% or 95% Alcohol	30 seconds
3.	Xylene*	3 minutes	16.	Optik Eosin	30-90 seconds
4.	100% Alcohol	1 minute	17.	100% Alcohol	1 minute
5.	100% Alcohol	1 minute	18.	100% Alcohol	1 minute
6.	100% Alcohol	1 minute	19.	100% Alcohol	1 minute
7.	80% Alcohol	1 minute	20.	Xylene*	1 minute
8.	Running H2O Wash	1 minute	21.	Xylene*	1 minute
9.	Optik Hematoxylin	3-6 minutes	22.	Xylene*	1 minute
10.	Running H2O Wash	3 minutes			
11.	Optik Clarifier	10-30 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.