



Modified Auramine O Stain Set

Manufacturer/Supplier: Scientific Device Laboratory 411 Jarvis Ave, Des Plaines, IL 60018 USA General and Technical Information Phone Number: 847-803-9495

Website: www.scientificdevice.com

Intended Use:

The SDL Modified Auramine O Stain Set uses a modified stain and quenching/decolorizing agent to make a rapid (2 minute) two step fluorescent staining procedure for the visualization of *Mycobacteria* organisms in clinical specimens.

Summary and Explanation:

scientific device

Mycobacterial disease has been steadily increasing. For public health reasons, it is necessary to identify this disease as rapidly as possible.² The stains classically used are time consuming and often difficult to read if decolorization is not performed properly. Auramine O and Auramine-Rhodamine stains have been used successfully but have 3 steps with a prolonged staining time. SDL's Modified Auramine O Stain uses a combination of a quencher/decolorizer to make a rapid (2 minute) two step stain.

Principle of the Procedure:

The SDL Modified Auramine O Stain Set is a two minute two step fluorescent stain that is used to identify *Mycobacteria* species. This stain has been shown to have a specificity of 90%.³

Components:

Modified Auramine O Stain Set contains two reagents, first the Modified Auramine O Stain (250 ml or 4x1liter) and then a Decolorizer/Quencher (250 ml or 4x1liter).

Warnings:

Do not use product beyond the expiration date. Do not interchange or mix components from different staining sets.

Cultures should be performed for confirmation on positive smears. A negative result does not preclude the presence of Mycobacteria. Avoid wiping slide dry with cloth or paper towels, let slide air dry.

Storage:

Store at room temperature (15°C to 30°)

Procedure:

Preparation of Patient Sputum Smear:

Heat fix smear. Apply Auramine O Stain on smear for 1 minute. Rinse with deionized or tap water and drain slide. Apply Decolorizer/Quencher reagent for 1 minute. Rinse with deionized or tap water and drain slide. Allow slide to air dry. Read slide under mercury or halogen light source fluorescent microscope using recommended techniques

Expected Results:

View slides using a fluorescent microscope with a blue barrier filter (390-440 μ , blue) as used for Fluorocein isothiocyanate.

Mycobacteria fluoresce green against a dark background. All other organisms will not be visible. Visualization of fluorescent bacilli is presumptive identification of *Mycobacteria species*. Cultures should be performed for confirmation. A negative result does not preclude the presence of Mycobacteria.

Quality Control:

Modified Auramine O Stain Set

Prior to shipping each lot of the Auramine O Stain Set has been quality controlled using an Acid Fast Control Slide. In addition each lot should be quality controlled prior to use with standard laboratory procedures

Limitations:

Some rapid growers do not fluoresce with this stain. Therefore, a culture is necessary for all specimens. Turbidity of the stain will not affect the results. Smears should be viewed as soon as possible.

Safety:

For *In vitro* diagnostic use. See SDS for additional information. These reagents can be harmful or fatal to your health. Use them in a well ventilated area. Use proper gloves when staining. Keep away from flames. Good general microbiology techniques should be followed.

References:

- 1. Truant, J.P. et al Henry Ford Hospital Bull., 1962.
- 2. Ann. New York Acad. Sci 84,225-238, 1984.
- 3. Hendry, C et al. J. Clin. Micro. 47:4, 1206-1208, 2009.

Related Product Information:

Catalog # 345-250: 250 ml Modified Auramine O Stain & Modified Auramine O Quencher/Decolorizer

Catalog # 345-01G: 1 gallon Modified Auramine O Stain & Modified Auramine O Quencher/Decolorizer (Special Order only)

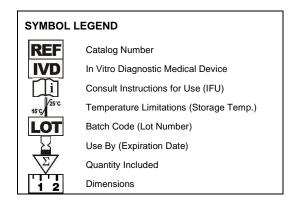
Catalog # 345-01L: 1 Liter Modified Auramine O Stain & Modified Auramine O Quencher/Decolorizer

Catalog # 345-04L: 4 x 1 liter each/package Modified Auramine O Stain & Modified Auramine O Quencher/Decolorizer

Catalog # 350: Acid Fast Stain Control Slides (10 slides/box)

Catalog # 351: Acid Fast Stain Control Slides (50 slides/box)

Catalog # 041-0120 Printed TB Slides









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Supported Products Page (QUALITY FILE ONLY)

This Technical Insert is used for the following products:

SDL Prod ID	Description			
156	345	-250	Modified Auramine O (stain & decolorizer/quencher)	250ml bottle each/pkg
157	345	-01G	Modified Auramine O (stain & decolorizer/quencher) - SPECIAL ORDER ONLY, suggest 345-04L as alternative	1 gallon each/pkg
1057	345	-S	Modified Auramine O (stain only)	1 gallon/pkg
158	345	01L	Modified Auramine O (stain & decolorizer/quencher)	1 liter each/pkg
	345	04L	Modified Auramine O (stain & decolorizer/quencher)	4x1 liter each/pkg

Revision History

Scientific device

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CR NUMBER	REVISION		
1009-003	00		
0410-004	01		
0910-002	02		
1017-003	03		
0420-001	04		
0723-001	05		