

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:

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:

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

SYMBOL LEGEND

	Catalog Number
	In Vitro Diagnostic Medical Device
	Consult Instructions for Use (IFU)
	Temperature Limitations (Storage Temp.)
	Batch Code (Lot Number)
	Use By (Expiration Date)
	Quantity Included
	Dimensions

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

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