

Orange G6 Staining Solution

Cat. No.: O1520397 | Pack size: 100 mL / 500 mL | Storage: Room temperature

Overview

The Papanicolaou method is commonly used for routine cytological staining. Ready-to-use staining solutions require optimized conditions so that cytoplasm is transparent and visible and nuclear chromatin is easily distinguishable.

Orange G6 Staining Solution is a component of Papanicolaou Stain, mainly composed of Orange G and phosphotungstic acid. It is often used with EA36 or EA50 to stain cytoplasm bright green, blue, and pink and is suitable for gynecological cytology smears and non-gynecological cytology samples such as pleural effusion, ascites, and sputum.

Key Features

- ☐ Ready-to-use Orange G6 component for Papanicolaou staining workflows
- ☐ Optimized for cytoplasmic staining in combination with EA36 or EA50
- ☐ Suitable for gynecological and non-gynecological cytological smears
- ☐ Room-temperature storage

Contents & Storage

Cat. No.	Component	Size	Storage
O1520397-100mL	Orange G6 Staining Solution	100 mL	RT
O1520397-500mL	Orange G6 Staining Solution	500 mL	RT

Materials Required But Not Supplied

Item	Recommended Specification	Purpose
Prepared cytological smear	Fixed and hydrated as required	Staining specimen
EA36 or EA50 solution	User-supplied or workflow component	Cytoplasmic counterstaining
Graded ethanol and xylene/clearing agent	User-supplied	Dehydration and clearing

Item	Recommended Specification	Purpose
Microscope	Bright-field microscope	Observation

Protocol

Procedure (Reference Only)

1. Perform the procedure according to the specific experimental requirements of the Papanicolaou staining workflow.
2. Stain with Orange G6 Staining Solution for approximately 2 min.

Storage & Handling

Store at room temperature for up to 12 months. Keep container tightly closed after use.

Safety & Precautions

1. All staining solutions require filtration and should be replaced regularly.
2. Wear a lab coat and disposable gloves during operation.
3. For research use only; strictly prohibited for other purposes.

Quality Control

QC Item	Method	Acceptable Range
Appearance	Visual inspection	No abnormal precipitation or discoloration beyond expected reagent color
Staining performance	Positive-control smear or section	Expected target/background staining pattern is observed
Storage condition	Label and storage check	Stored as specified; light-sensitive reagents protected from light

Troubleshooting

Issue	Possible Causes	Corrective Action
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Issue	Possible Causes	Corrective Action
Weak cytoplasmic staining	Insufficient staining time or exhausted reagent	Stain for approximately 2 min and replace reagent regularly
Precipitate on smear	Unfiltered or aged staining solution	Filter reagent and maintain clean staining vessels
Poor nuclear/cytoplasmic contrast	Workflow timing not optimized	Validate each Papanicolaou staining step with controls

Recommended Applications

Papanicolaou staining · cytological smears · gynecological cytology research · pleural effusion/ascites/sputum cytology research

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