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¹In-house protocol



Works for me

VALAP protocol

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ABSTRACT

VALAP is a biologically inert method for sealing coverslips, making it usefulfor live cell imaging.

PROTOCOL CITATION

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GUIDELINES

- Supplies
- Mix together
- Use:
- 1. Method 1: Painting it on
- 2. Method 2: Careful placement

MATERIALS TEXT

- Vaseline (also called petrolatum)
- Lanolin
- Paraffin wax (flakes work best)
- Disposable container that can be heated on a hot plate
- A disposable stirring device that can withstand heat (or glass rod that can be cleaned)

The Vaseline, lanolin, and paraffin can be purchased from Fisher/VWR or, oftentimes, at your local drug store.

SAFETY WARNINGS

- NEVER leave unattended on the hot plate! Valapleft unattended on a hot plate will vaporize into the room and will re-solidify on other surfaces. This includes optics if there's a microscope in the room!
- Do not overheat!

DISCLAIMER:

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ABSTRACT

VALAP is a biologically inert method for sealing coverslips, making it usefulfor live cell imaging.

BEFORE STARTING

Mix together:

- In a disposable but heat resistant container, combine equal parts by weight of the three components.
- In a fume hood, heat the container at a low temperature to slowly melt ingredients together, mixing
- When it has combined into a homogenous liquid, carefully pour the liquid into small jars or bottles for storage. Allow it to cool before placing the cap on.

Jse: Method 1 - "Painting" it on	
1	Put the jar or bottle on a hotplate on the lowest temperature setting. Do not leave unattended!!!
2	Wait for the Valap to melt fully.
3	Using a cotton-tipped applicator, make sure it is well loaded with liquid Valap.
4	Quickly wipe the Valap along the open edge of the coverslip, half on the coverslip and half on the slide.
5	Repeat for the rest of the coverslip edges that need to be sealed.
6	Be careful not to get Valap on microscope optics! It is very difficult to remove and it's presence will significantly degrade image quality.
Jse: Method 2 - Careful placement	
7	This method uses a small metal spatula and an alcohol burner.

Use the spatula to take a small amount of valap from the container.

- 9 Hold it over the flame to melt it.
- 10 Put a small bead of valap along the open edge of the coverslip.
- 11 Repeat for the other sides of the coverslip

Both methods take a bit of practice to do quickly. Method 2 creates a smaller profile and does not encroach on the coverslip surface as much as Method 1.