

**Protocol ID:** <PROT-XXX-XXX-vX.X>

**Version:** vX.X

**Author:** Dillon Corvino

**Date:** YYYY-MM-DD

## **Purpose**

<Brief description of the biological motivation and goal of the protocol. Include 2–5 sentences max.>

## **Critical notes (read before starting)**

- <Add high-level critical notes specific to this protocol.>
- <Note temperature-sensitive steps.>
- <Note limitations or warnings.>
- <Remove or expand placeholders as needed.>

## **Approximate timing**

- <Sub-step 1: X–Y min>
- <Sub-step 2: X–Y min>
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- <Total estimated hands-on time: X–Y min>

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## Procedure

The procedure is divided into major steps (STEP 1, STEP 2, etc.). Add or remove sections as needed.

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### STEP 1 – <TITLE OF STEP 1>

1. <Describe step 1 actions.>
2. <Use numbered lists for sequential actions.>
3. <Include callouts for warnings or tips if relevant.>

#### Warning

<Example warning: handle enzymes, sharps, or toxic reagents according to safety guidelines.>

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### STEP 2 – <TITLE OF STEP 2>

1. <Add actions.>
2. <Add incubation times, speeds, conditions.>

#### Note

<Optional note: clarify common mistakes or critical parameters.>

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### STEP 3 – <TITLE OF STEP 3>

1. <Add further sequential steps.>
  2. <Add sub-steps if needed.>
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### STEP 4 – <TITLE OF STEP 4> (optional)

1. <Additional optional steps.>

## Buffers used (defined in separate buffer protocols)

This protocol uses the following buffers.

Insert only the IDs and short names; do **not** define the buffer compositions here.

- <Buffer Name 1> – <BUF-XXX-XXX-vX.X>
- <Buffer Name 2> – <BUF-XXX-XXX-vX.X>
- <Buffer Name 3> – <BUF-XXX-XXX-vX.X>

Each buffer must have its own dedicated buffer file in `protocols_src/buffers/`.

**Materials**

**Reagents**

Reagent	Supplier / Cat#	Notes
<Reagent 1>	[TBD]	
<Reagent 2>	[TBD]	
<Reagent 3>	[TBD]	

**Disposables**

Item	Notes
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**Equipment**

Equipment	Notes
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Troubleshooting

Issue	Possible cause	Suggested solution

## Safety (brief)

- Follow institutional S1/S2 rules and applicable animal, biological, or chemical safety guidelines.
- Use personal protective equipment suitable for this protocol.
- Dispose of sharps, biological waste, and chemical reagents in accordance with facility rules.
- Add protocol-specific hazards if relevant (e.g. enzymes, detergents, toxic buffers).

## Version history

Version	Date	Author	Change summary
vX.X	YYYY-MM-DD	Dillon Corvino	Initial version