

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>
-
- <Total estimated hands-on time: X–Y min>

Table of contents

| | |
|--|----------|
| Purpose | 1 |
| Critical notes (read before starting) | 1 |
| Approximate timing | 1 |
| Procedure | 3 |
| STEP 1 – <TITLE OF STEP 1> | 3 |
| STEP 2 – <TITLE OF STEP 2> | 3 |
| STEP 3 – <TITLE OF STEP 3> | 3 |
| STEP 4 – <TITLE OF STEP 4> (optional) | 3 |
| Buffers used (defined in separate buffer protocols) | 4 |
| Materials | 5 |
| Reagents | 5 |
| Disposables | 5 |
| Equipment | 5 |
| Troubleshooting | 6 |
| Safety (brief) | 7 |
| Version history | 7 |

Procedure

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

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.>

STEP 2 – <TITLE OF STEP 2>

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

Note

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

STEP 3 – <TITLE OF STEP 3>

1. <Add further sequential steps.>
 2. <Add sub-steps if needed.>
-

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 |
|------|-------|
|------|-------|

Equipment

| Equipment | Notes |
|-----------|-------|
|-----------|-------|

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 |