





Zebrafish (Larva)

- Extract molecules (DNA, RNA, protein, chemicals)
- Wet final product
- Sample sizes: up to 300 mg.

Notes on the protocol: This protocol does not specify a particular buffer - you may choose which is most appropriate for your downstream application (nucleic acid isolation, protein extraction, etc.).

Materials Required

One of these Bullet Blenders

- Bullet Blender (BBX24)
- Bullet Blender Blue (BBX24B)
- Bullet Blender Storm 24 (BBY24M)
- Bullet Blender 24 Gold (BB24-AU)

Reagents

Homogenization buffer

2 x volume of sample

Bead choices

- PINK bead lysis kit (PINK) (for samples up to 100 mg.)
- RED bead lysis kit (RED) (for samples between 100 and 300 mg.)
- 0.5 mm zirconium oxide beads (ZROB05) Use a volume of beads equivalent to 1 x the volume of the sample

Procedure

- 1. Place the sample in the tube with the beads.
- 2. Add a volume of buffer that is twice the volume of the sample. Sample volume may be approximated by sample weight. E.g., for a 100 mg. sample, add 0.2 ml. buffer.
- 3. Close the tubes tightly and place them in the Bullet Blender.
- 4. Set the controls for Speed 10 and Time 3. Press Start.
- 5. After the run, remove the tubes from the instrument and visually inspect the samples. If homogenization is incomplete, repeat the homogenization step at a higher speed.
- 6. Proceed with your downstream application.

Questions? Call 1.518.674.3510 Email info@nextadvance.com







Zebrafish (Larva)

- Extract molecules (DNA, RNA, protein, chemicals)
- Wet final product
- Sample sizes: 100 to 1000 mg.

Notes on the protocol: This protocol does not specify a particular buffer - you may choose which is most appropriate for your downstream application (nucleic acid isolation, protein extraction, etc.).

Materials Required

One of these Bullet Blenders

- Bullet Blender 5 Storm (BBY5M)
- Bullet Blender 5E (BBY5E)
- Bullet Blender 5 Gold (BB5E-AU)

Reagents

Homogenization buffer

2 x volume of sample

PBS (optional)

2 x volume of sample

Bead choices

• **0.5 mm zirconium oxide beads** (ZROB05) Use a volume of beads equivalent to 1 x the volume of the sample

Procedure

- 1. Place the sample in the tube with the beads.
- 2. (Optional) Wash the sample 3x with 1/2 tube volume of PBS to remove surface contaminants.
- 3. Close the tubes tightly and place them in the Bullet Blender.
- 4. Set the controls for Speed 8 and Time 3. Press Start.
- 5. After the run, remove the tubes from the instrument and visually inspect the samples. If homogenization is incomplete, repeat the homogenization step at a higher speed.
- 6. Proceed with your downstream application.

Questions? Call 1.518.674.3510 Email info@nextadvance.com