

Innovative Biopsy Harvesting Tools & Systems Custom Tag Head & Tether Solutions to Increase Retention



Why TISSUEGRABTM?

Reliable tissue samples are the foundation of genetic, isotopic, and physiological research. Yet conventional metal biopsy devices often fail: low yields, contamination*, repeated attempts, and high costs reduce sample quality and increase stress on animals.

TISSUEGRABTM solves these challenges:

- Sterile, gamma-irradiated, single-use tips
- Consistent yield of ~1.5 cm³ tissue (suitable for multiple assays and long-term archiving)
- Minimally invasive design reduces animal stress and avoids repeated sampling
- Compatible with harpoons, spearguns, crossbows, and other platforms via a universal M8 bolt (M7 with thread tape)

*References: Evans et al. (2021, FRDC Project No. 2016/018); Anderson et al. (2023, Frontiers in Marine Science); Righton et al. (2025, Scientific Reports).





Pre-assembled dart tip and base can be separated after sample acquisition or bagged and frozen intact



TISSUEGRABTM Biopsy Dart include dart tip and base mounted to an M8 bolt.



Proven Base Model — Ready to Scale:

Our patented TISSUEGRABTM biopsy dart is more than a tool: it's a platform for future innovation.

- Current model validated across species and sampling environments
- Scalable design accommodates different species sizes and challenges (e.g., sharks, billfishes, tunas)
- Future development pipeline: cutting/piercing accessories to enhance penetration in species with dense dermal denticles

With directed investment, the TissueGrabTM system can set global best-practice standards for tissue sampling.

Cost-Effectiveness & Reliability:

Each biopsy tip is \$30 USD - a fraction of the cost of traditional devices, which are often reused at the risk of contamination.

- Single-use design eliminates cross-sample contamination
- No hidden sterilization costs every tip arrives ready for deployment
- Higher yield = fewer attempts = less time on the water and less stress on study animals

Compared to vessel costs (often \$30,000/day for large expeditions), ensuring one-strike, one-sample success makes TISSUEGRAB TM the most cost-effective option for marine researchers.

Technical Features:

- Flared chamber for tissue expansion
- Barbed chamber & Barbed chamber & Barbed chamber amp; rough interior to "grab and hold" tissue securely
- Recessed cutouts prevent positive pressure buildup
- Sharpened tapered tips produce clean exit wounds (insignificant compared to natural injuries such as cookiecutter shark bites)
- Tip + base assembly can be separated or frozen intact for transport and archiving
- Sample ID can be written directly on the tip for documentation

Sustainability & Reinvestment:

We are committed to reinvesting in fisheries science. A portion of proceeds from TISSUEGRABTM product sales support conservation initiatives and capacity-building in international fisheries research.

Ordering Information:

- Price: \$30 USD per biopsy tip
- Delivery: Typically, 1–2 weeks (U.S. and international shipping available)
- Guarantee: 30-day money-back guarantee on unopened devices
- TissueGrab@gmail.com