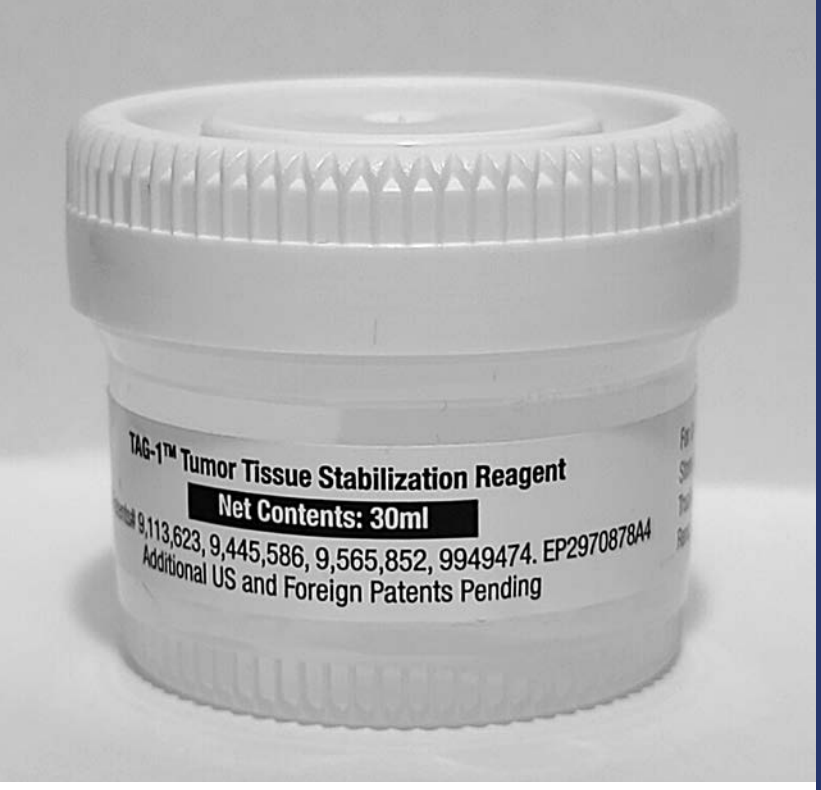

Truckee Applied Genomics

TAG-1

NON-TOXIC TISSUE/CELL STABILIZATION REAGENT

- Designed for storage and transport of fresh tissues, or fixative in tissue processing.
- No cross-linking of cellular proteins and nucleic acids
- Excellent preservation of tissue morphology
- Strong protection of cell surface antigenic components
- Excellent for molecular assays such as DNA-seq, RNA-seq, FISH, etc.

New RUO Applications in Development

Single Cell Multiomics
Liquid Biopsy
Spatial Genomics /Transcriptomics
Biomarker Discovery

Components & Mechanism of Action

- **Chaotrope** : Inhibits nucleases and endonuclease
- **Chelator :** Inactivates Ca and Mg driven enzyme systems - decreasing destruction of cellular contents
- **Penetrant & metabolic modulator :** Drives TAG-1 into tissue and modifies apoptotic cytokines function - slowing cell death
- **1st Kosmotrope :** Functions to stabilize nucleic acids against thermodynamic stress and environmental stress.
- **Buffer :** Provides for a biological pH system allowing for optimal nucleic acid stabilization by the other components for DNA/RNA analysis.
- **2nd Kosmotrope :** Directly interacts with nucleic acids. When combined with 1st Kosmotrope the combination adds significant thermal stability of the nucleic acid structures
- **Apoptosis substrate :** Maintains cellular apoptotic transition and regulatory control cytokines
- **Mixing formulation :** Optimized component concentration for maximized tissue sample integrity

TAG-1 has multiple patents issued and pending. It is a Class 1 general reagent pursuant to 21 CFR 864.4010.

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