Ruhvenile® Biomedical
Product datasheet

GeneLokr™

Unbiased Genetic Lock for NGS, PCR, RT-PCR, qPCR and Microarrays



Stop risking your precious genetic samples. The cold chain is officially broken. Molecular diagnostics and genomics research are demanding, but sample preservation should not be the weak link. GeneLokr™ is an unbiased ambient fixative engineered for NGS, PCR, RT-PCR, qPCR and microarrays. It keeps cells and nucleic acids intact, locking in pristine high-molecular-weight genomic DNA and total RNA at room temperature for months, with no liquid nitrogen, no dry ice and no enzymatic inhibition. Extract whenever you are ready.

Indigenous patented technology | Discovered and developed in India | DSIR recognised | ISO 9001:2015 certified | CE (IVD) compliant

5+ months
RNA stability at 15–25°C

10–12 months
DNA stability at 15–25°C

Irreversible
nuclease deactivation

Inhibition-free
works with spin-column and magnetic-bead kits

Key features

- Enzyme-proof: permanently inactivates RNases and DNases (irreversible).
- Inhibition-free purity: works with standard spin-column and magnetic-bead extraction kits, with no downstream enzymatic inhibition.
- Zero field precipitation: stays fluid in the cold, so 1:1 pipetting stays precise.
- Cold-chain independent: RNA 5+ months and DNA 10–12 months at 15–25°C.
- Library-ready quality: protects library complexity, reduces GC-bias and secures high DIN/RIN scores for WGS, RNA-Seq and targeted panels.

Specifications

Parameter	Value
RNA stability, 15–25°C	Up to 5 months (150+ days)
DNA stability, 15–25°C	Up to 10–12 months
4°C	DNA 2–3 years; RNA up to 6 months
Frozen (-20°C to -80°C)	DNA and RNA for years; does not freeze solid
Nuclease deactivation	Permanent, irreversible
Extraction compatibility	Standard spin-column and magnetic-bead kits, with no downstream enzymatic inhibition
Mixing ratio	1:1 with high-moisture specimens
Sample types	Tissue, blood, invertebrates, hair and swabs (animal and human); plant leaves, fungi, faecal samples, soil and environmental DNA
Format	Ambient fixative: preserves intact cells and nucleic acids; extract after transport
Downstream applications	NGS (WGS, RNA-Seq, targeted panels), PCR, RT-PCR, RT-qPCR, microarrays

Parameter	Value
Sequencing platforms	Illumina, PacBio, Oxford Nanopore
Quality assurance	Lot-specific CoA, technical data sheet and MSDS

Catalogue codes and pack sizes

Code	Pack
RUV-GLR-0.9	0.9 mL pre-filled sterilised cryotube, pack of 50
RUV-GLR-1.5	1.5 mL pre-filled cryotube, pack of 50
RUV-GLR-3.0	3.0 mL pre-filled cryotube, pack of 50
RUV-GLR-100	100 mL bottle
RUV-GLR-250	250 mL bottle
RUV-GLR-500	500 mL bottle

Best for

- Molecular biology researchers who need unbiased data from NGS, PCR, RT-qPCR and microarrays
- Biobank managers who want a stable, ambient first step before ultra-cold storage
- Clinical trial coordinators running multi-centre studies with courier transit
- Oncology and diagnostic labs collecting blood, saliva, swabs and tissue biopsies
- Genomics core facility directors who need high-molecular-weight DNA and high-RIN RNA on arrival

Frequently asked questions

What is the difference between GeneLokr™ and truGnom®?

GeneLokr™ is an ambient fixative: it keeps cells and nucleic acids intact so you can transport and store them for months, then extract. truGnom® is an active lysis and stabilisation medium: it lyses cells on contact and stabilises the released nucleic acids for direct-to-extraction workflows. Choose GeneLokr™ to preserve now and extract later; choose truGnom® to lyse now and extract immediately.

Do I need to keep samples in a freezer or ice chest immediately after collection?

No. GeneLokr™ provides complete ambient stabilisation. Once mixed 1:1 with your sample, it halts cellular metabolism and locks nucleic acids, allowing safe room-temperature transport for months without dry ice or liquid nitrogen.

Will residual GeneLokr™ matrix inhibit PCR, RT-qPCR or sequencing enzymes?

No. Unlike legacy high-salt buffers that can cause polymerase inhibition, GeneLokr™ is engineered for complete compatibility with standard spin-column and magnetic-bead extraction kits, giving clean, inhibitor-free eluates.

Order or customise

Request a quote, a custom pack size or bulk quantities. Dispatch within 3–5 working days.

Ruhvenile® Biomedical OPC Pvt. Ltd.
Mobile and WhatsApp: +91 858 703 3367 | Landline: +91 11 3501 7209
info@ruhvenile.com | www.ruhvenile.com/genelokr.html

Specifications come from Ruhvenile® product information and may be updated. Confirm current specifications and regulatory status with Ruhvenile® before ordering.