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 a dual-action, unbiased ambient genetic stabilization matrix engineered for NGS, PCR, RT-PCR, qPCR and microarrays. It locks in pristine high-molecular-weight genomic DNA and total RNA at room temperature for months, without liquid nitrogen, without dry ice and without enzymatic inhibition.

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

- Active enzyme annihilation: proprietary active molecular modifiers permanently neutralise resilient RNases and DNases, protecting total RNA and genomic DNA integrity.
- Inhibition-free purity: engineered for seamless compatibility with standard commercial spin-column and magnetic-bead extraction kits, delivering ultra-pure nucleic acids ready for sensitive enzymatic amplification.
- Zero field precipitation: stays fluid across wide temperature variations, so there are no salt crystals and 1:1 pipetting stays precise, even in cold weather.
- Cold-chain independent: no liquid nitrogen, no dry ice. RNA is stable for 5+ months and DNA for 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
Downstream applications	NGS (WGS, RNA-Seq, targeted panels), PCR, RT-PCR, RT-qPCR, microarrays
Sequencing platforms	Illumina, PacBio, Oxford Nanopore

Parameter	Value
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

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

No. GeneLokr™ provides complete ambient stabilization. Once mixed 1:1 with your sample, it instantly 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 cause polymerase inhibition, GeneLokr™ is engineered for complete compatibility with standard spin-column and magnetic-bead extraction kits, giving clean, inhibitor-free eluates.

Will GeneLokr™ cause salt crystals or precipitation in cold field weather?

No. GeneLokr™ uses an optimised, sub-saturated, highly fluid proprietary matrix designed to prevent crystal formation and ensure accurate 1:1 pipetting across diverse environmental temperatures.

Order or customise

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

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