Ruhvenile® Biomedical
Product datasheet

ALCHESIS™ MTM

ALCHESIS™: Eliminate Spin-Columns and Cold Chain. Streamline Your PCR and LAMP Workflow Anywhere.

ALCHESIS™ MTM: Extraction-Free Molecular Transport and Lysis Media. Transform your PCR, LAMP, TMA and NASBA diagnostics with ambient stability, instant pathogen inactivation and direct-to-amplification precision from any clinical, veterinary or environmental specimen.



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

7–30+ days	**0**	**90–95°C**	**0.25–1.5 mL**
ambient stability	extraction steps	thermal lysis for tough cells	fill sizes, or custom

Key features

- No purification needed: bypass spin-columns, silica beads and organic extractions, saving hours of hands-on time and processing cost.
- Direct-to-amplification: advanced inhibitor-scavenging polymers let you pipette raw supernatant lysate straight into your PCR master mix, or go direct to LAMP.
- Cold-chain free: ambient-stable for 7 to 30+ days at room temperature. Ship and store without ice packs, dry ice or refrigeration.
- Excels in NAAT workflows and also supports NASBA and TMA.
- Any sample, One Health: one formulation for human clinical samples, animal (veterinary) blood and tissues, environmental water and soil, and hard-bodied arthropod vectors.
- 95°C thermal lysis ready and patented, developed in New Delhi by Ruhvenile® Biomedical.

Specifications

Parameter	Value
Room temperature stability	7 to 30+ days
Mixing ratio	1:1 or a targeted volumetric ratio, in a standard microcentrifuge tube
Tough cells	Thermal lysis at 90–95°C for 10–15 minutes
Fragile cells and blood-borne pathogens	Instant ambient lysis
Downstream use	NAAT workflows (LAMP and PCR), plus NASBA and TMA, directly from the supernatant
Customisation	Volumes, packs and formulations on request

Pack sizes

Fill volume	Tube
0.25 mL	0.5 mL tube
0.5 mL	0.9 mL tube
0.9 mL	2.0 mL tube
1.5 mL	5.0 mL tube
Bulk	Custom quantity

Best for

- Point-of-care and field testing with LAMP or PCR
- Diagnostic labs that want to skip spin-columns and beads
- Veterinary, vector-surveillance and environmental testing

Frequently asked questions

What is ALCHESIS™ MTM?

ALCHESIS™ is an extraction-free molecular transport medium (MTM) and lysis buffer. It inactivates pathogens on contact, protects nucleic acids at ambient temperature, and lets you go directly to PCR, LAMP, TMA or NASBA.

Do I need to extract DNA or RNA before PCR or LAMP?

No. After lysis, centrifuge briefly to pellet heavy debris and pipette a small aliquot of the clear supernatant directly into your reaction.

Which amplification methods does ALCHESIS™ support?

ALCHESIS™ excels in NAAT workflows such as LAMP and PCR, and also supports NASBA and TMA.

Does ALCHESIS™ inactivate pathogens?

Yes. It disrupts cell membranes and viral envelopes and inactivates infectious agents, including Mycobacterium tuberculosis, which improves biosafety during transport and handling.

Is ALCHESIS™ suitable for point-of-care testing (POCT)?

Yes. With no extraction step and no cold chain, it suits clinics, mobile labs and field sites that need a short path from sample to amplification.

Can it handle inhibitor-rich samples such as sputum, blood, dung or soil?

Yes. It neutralises common inhibitors, including humic acids, heme, proteins and lipids, during transport.

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.