

Armored RNA Quant® SARS-CoV-2 Controls

In response to COVID-19, Asuragen has developed molecular diagnostic controls for multiple regions of the SARS-CoV-2 genome as well as conserved mutations in the spike protein prevalent in the alpha, beta, gamma, delta, and omicron variants. Armored RNA Quant® controls allow for stable, reliable, and safe ways to rapidly test for the presence of Coronavirus and its variants.

Each control encodes *in vitro* transcribed RNA encapsulated in a protective protein coat to create a virus-like particle resistant to nuclease degradation. This allows the products to be used as RNA extraction controls, process quality controls,

or positive diagnostic reference controls. From feasibility to clinical use, these robust and versatile controls are beneficial across all sectors of the research and diagnostic spectrum.

Armored Controls have been utilized in FDA-cleared assays for the last 20+ years and continue to serve as an important tool in the rapidly evolving space of molecular diagnostics.

Reduced Complexity

- High-quality solution to monitor extraction and process efficiency
- Compatible with a wide range of RNA-based clinical assays
- Non-infectious, synthetic constructs simplify shipping and storage

Optimized Workflow

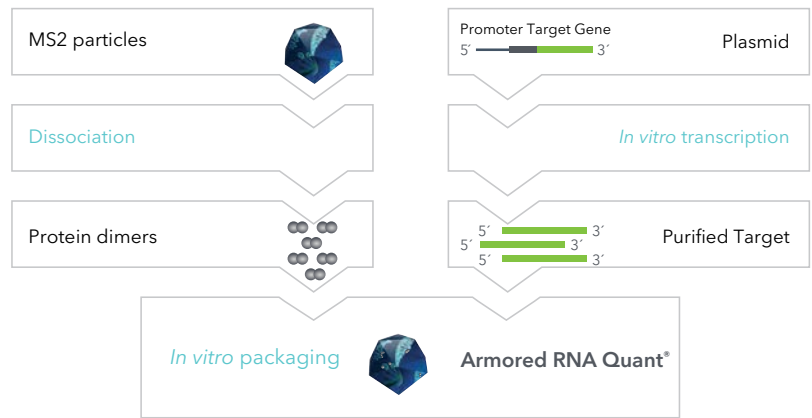
- Deployable as extractable, exogenous internal positive controls
- Degradation resistant in majority of biological matrices
- Multiple volume and manufacturing options available
- Available as cGMP or development lot in a range of fill volumes

Quality Performance

- Concentration determined using National Institute of Standards (NIST) traceable standard
- Highly standardized, quality controlled manufacturing ensures reliability and consistency between lots
- Manufactured in a cell-free system

Armored RNA Quant®

- Concentration: 1 x 10⁶ copies/mL and can be customized
- Buffer Composition: TSM III (10 mM Tris, 100mM NaCl, 1 mM MgCl₂, 0.1% Gelatin, 0.3% Microcide III, pH 7.0)
- Storage at -15 to -30°C



SARS-CoV-2

- Targets the N1, N2 region of the CDC recommended Diagnostic Panel (CDC-006-00019).

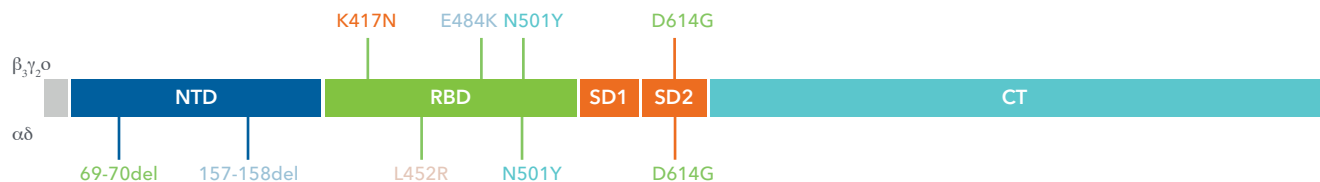
SARS-CoV-2 Panel

- Contains regions of nucleocapsid, envelope, RNA-dependent RNA polymerase, open reading frame 1ab, and human RNase P as an internal control.



SARS-CoV-2 Spike Variants

- Targets mutations in the SARS CoV-2 spike protein prevalent in the Alpha, Beta, Gamma, Delta, and Omicron strains.



Ordering Information

Product Description	Concentration	Part Number	Volume
Armored RNA Quant SARS-CoV-2	1 x 10 ⁶ cp/mL	52151	250 µL
Armored RNA Quant RNase P	1 x 10 ⁶ cp/mL	52152	250 µL
Armored RNA Quant SARS-CoV-2 Panel N, E, RdRp, ORF1, RNP	1 x 10 ⁶ cp/mL	52153	250 µL
Armored RNA Quant SARS-CoV-2 Spike Variants Alpha, Beta, Gamma, Delta, Omicron	1 x 10 ⁶ cp/mL	52160	250 µL

Contact Us | aus.armored@bio-techne.com

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*For Research Use Only. Not For Use in Diagnostic Procedures.

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