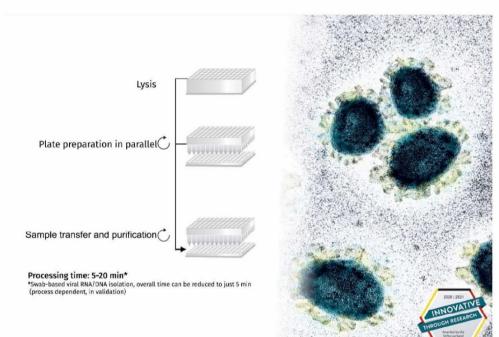


## Viral RNA from Swabs for SARS CoV-2 testing!

## Extremely fast and safe with BioEcho!

Bioecho has developed novel isolation kits for viral RNA from naso-pharyngeal swabs which have been successfully validated for SARS CoV-2 testing (see table) and which are in use in professional diagnostics routine in testing labs in Germany. The procedure is suitable for all common swab formats.



## Available kit products\*:

Kit	Description	Product no.
EchoLUTION Viral RNA/DNA Swab Kit (10)	for single-step spin column-based purification of viral RNA & DNA from nasopharyngeal swabs; starting material: dry/non-resuspended or swabs in medium	012-001-010
EchoLUTION Viral RNA/DNA Swab Kit (50)		012-001-050
EchoLUTION Viral RNA/DNA Swab Kit (250)		012-001-250
EchoLUTION Viral RNA/DNA Swab 48 Kit (2x 48)	for single-step 48/96-well purification of viral RNA & DNA from nasopharyngeal swabs; starting material: dry/non-resuspended or swabs in medium	012-050-002
EchoLUTION Viral RNA/DNA Swab 48 Kit (8x 48)		012-050-008
EchoLUTION Viral RNA/DNA Swab 96 Kit (2x 96)		012-101-002
EchoLUTION Viral RNA/DNA Swab 96 Kit (8x 96)		012-101-008

\*EchoLUTION Viral RNA/DNA Swab kits have not been certified and would require on-site validation for testing of humans on Covid-19

The 96-well and spin column kits are based on BioEcho's proprietary EchoLUTION technology. This technology allows the isolation of highly pure nucleic acids in a single step; binding to a Silica membrane as well as successive wash steps need not be performed.

After a quick lysis, extraction of viral RNA is done via a single short centrifugation step. The total purification procedure is thus usually done within few minutes. The obtained highly pure viral RNA is free of amplification inhibitors and can immediately be used for reliable SARS CoV-2 RT-qPCR detection (see figure).

Especially when sample numbers are high, this revolutionary single-step principle provides significant advantages and a throughput of several 1,000 samples per day and lab person is achievable without any pre-work required to establish the procedure. The entire RNA extraction process can easily be validated and is up to 10-fold faster than traditional methods such as Silica-based (*bind-wash-elute*) extraction. Only standard lab equipment (pipette, centrifuge) is required.

Validation in a certified German diagnostics lab showed equivalence to well established testing platforms (table).

**Table**. Validation summary BioEcho *EchoLUTION Viral RNA/DNA Swab 96 Kit* vs. Roche *SARS-CoV-2/cobas 6800*. RT-qPCR detection of SARS-CoV-2 RNA was performed using the test from Anchor Diagnostics (Hamburg, Germany).

Validation summary	BioEcho EchoLUTION	Roche cobas 6800
Covid-19 tests run	31	31
Internal control recovery	31	31
SARS-CoV-2 detection	10	11
detection EchoLUTION vs. no detection cobas 6800	2	
detection cobas 6800 vs. no detection EchoLUTION		3

Interested in testing our Viral RNA/DNA extraction solution? The BioEcho team is looking forward to hearing from you. See below for contact data.



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