

CelEct Virus Universal Probe One-step kit

qPCR One-step Probe mix for reliable, accurate detection of viral RNA targets

Why choose CelEct Virus Universal Probe One-step mix?

- » Validated for qualitative detection of SARS-CoV-2
- » Ultra-low sensitivity to low copy number templates
- » 4X concentrated buffer enables more template input volume
- » Contains the thermostable CelScript reverse transcriptase and novel Rnase inhibitor
- » Yields early Ct values with wide dynamic detection range
- » Compatible with TaqMan®, Scorpions® and molecular beacon probes
- » Enhanced specificity supported by a hot-start enzyme
- » Compatible with all qPCR cyclers

The CelEct Virus Universal Probe One-step kit is designed for highly specific, reproducible detection of viral RNA using one-step probe-based real time PCR. The 4X concentrated mix achieves ultra-low sensitivity by increasing the sample input volume and is ideal for high throughput assays with small reaction volumes.

Applications

- » Qualitative detection of SARS-CoV-2/COVID-19
- » Efficient amplification in single- and multiplex reactions
- » Ultra-sensitive detection of RNA viruses
- » Diagnostic qPCR assays
- » Detection of low copy number targets

Technical specification

Charateristic	Detail
Instrument compatibility	For use with all real time PCR instruments (supplied with a separate tube of rox dye)
Amplification detection	TaqMan®, Scorpions® and molecular beacon probes
Format	Ready-to-use one-step mix (4X)
Polymerase	CelTaq HS DNA polymerase
Reverse Transcriptase	CelScript Reverse Transcriptase
Increased specificity	Hot-start modification
Cycling speed	Standard and fast modes
Shelf life	12 months (if stored correctly)

Contact Details

E: info@celticmolecular.com T: +27 21 21 762 7703



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Description

The CelEct Virus Universal Probe One-step kit is compatible with probes based on various probe principles, including TaqMan[®], Scorpions[®] and molecular beacon probes and can achieve sensitivity down to 4 copy inputs of RNA target (0.8 copies/ μ l).

The 4X mix contains all components required for sensitive, reproducible one-step qPCR (except the template, primers, probes and water). This highly concentrated format allows for greater template input volume, increasing assay sensitivity.

The thermostable CelScript Reverse Transcriptase results in rapid, specific cDNA synthesis at temperatures up to 55°C and is complemented by an advanced RNase inhibitor that protects viral RNA from degradation. An antibody-mediated hot-start polymerase limits the formation of primer dimers and other non-specific products leading to efficient amplification of multiple targets, even in the presence of common inhibitors found in clinical samples.

The mix is supplied with a separate tube of 50 μ M ROX dye that may be used with instruments requiring ROX as a passive reference dye. CelEct Virus Universal Probe One-step kit is suitable for use on all real time PCR cyclers.

Ordering info

Cat. no	Pack size
CM3711-0200	200rxns (1 ml)
CM3711-0600	600rxns (3ml)
CM3711-0600	1000rxns (5ml)

More information at

www.celticmolecular.com/product/celect-virus-universal-probe-one-step-kit/

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