

Venor® GeM Advance, OneStep, qOneStep & Sample Preparation

Screening of
cell cultures
in academic
and industrial
research

Time and cost effective

- ✓ Rapid, routine cell culture testing: the most effective strategy against contamination
- ✓ Valuable tools for ensuring reliability of scientific data and meeting journal requirements
- ✓ Easily incorporated into any standard experimental project and budget plan as a reasonable cost

Flexible

- ✓ Product variants for conventional or real-time PCR
- ✓ Compatible with almost all commercially available cyclers

Practical

- ✓ Pre-aliquoted PCR mix ensures long-term stability
- ✓ Lyophilized kit components simplify logistics and storage



PCR-based assays for cell culture screening

Venor® GeM Advance

Description & Features

Venor®GeM Advance is a kit for conventional PCR with a ready-to-go design that still ensures temperature stability. PCR strips are supplied with predispensed lyophilized PCR reagents (incl. polymerase) to reduce pipetting steps and total assay time. For additional convenience, the gel loading buffer is already included in the reaction buffer. After PCR, the products can be loaded directly on the agarose gel without further pipetting steps.

Type of PCR: Conventional, endpoint PCR

Sample Volume per PCR: 2 µl

Recommended Use: Applicable in research for direct testing of cell cultures and cell culture-derived biologicals. Not applicable for clinical diagnostics.

Kit Components: Primers, nucleotides, Taq polymerase, Internal Amplification Control, predispensed in 0.2 ml PCR reaction tubes (caps included); Rehydration buffer including gel loading buffer and running dye; Positive controls dispensed in 0.2 ml PCR reaction tubes; PCR Grade Water

Shelf Life and Storage: Components can be stored at +2 to +8 °C for at least 12 months. After rehydration the reagents must be stored at ≤ -18 °C.

Required Lab Devices: PCR cycler / Agarose gel electrophoresis and DNA staining system / Pipetting equipment / Microcentrifuge

Required Consumables: DNA stain and marker

Order Information

Catalog Number

Cat. No. 11-7024	24 Reactions	Cat. No. 11-7096	96 Reactions
Cat. No. 11-7048	48 Reactions	Cat. No. 11-7240	240 Reactions

Venor® GeM OneStep

Description & Features

Venor®GeM OneStep is a complete kit, including all reagents required for PCR. Primers, nucleotides, polymerase and the internal amplification control are provided in a ready-to-use, freeze-dried reaction mix. Once rehydrated, the OneStep Mix can be dispensed to the PCR reaction tubes where then samples or Positive Control DNA are added prior to PCR.

Type of PCR: Conventional, endpoint PCR

Sample Volume per PCR: 2 µl

Recommended Use: Applicable in research for direct testing of cell cultures and cell culture-derived biologicals. Not applicable for clinical diagnostics.

Kit Components: Primers; Nucleotides; Taq polymerase and Internal Amplification Control; Rehydration Buffer; Positive Control DNA; PCR Grade Water

Shelf Life and Storage: Components can be stored at +2 to +8 °C for at least 12 months. After rehydration the reagents must be stored at ≤ -18 °C.

Required Lab Devices: PCR cycler / Agarose gel electrophoresis and DNA staining system / Pipetting equipment / Microcentrifuge

Required Consumables: PCR reaction tubes / Gel loading buffer, DNA stain and marker

Order Information

Catalog Number

Cat. No. 11-8025	25 Reactions	Cat. No. 11-8100	100 Reactions
Cat. No. 11-8050	50 Reactions	Cat. No. 11-8250	250 Reactions



Venor® GeM qOne Step

Description & Features

Venor®GeM qOneStep is a qPCR kit for mycoplasma detection including all reagents required for the qPCR reaction. Primers, nucleotides, polymerase and the internal amplification control are provided ready-to-use in a lyophilized reaction mix. The protocol is optimized for fast and reliable screening of cell culture supernatants. Eukaryotic DNA is not amplified by this primer/probe system.

Type of PCR: TaqMan®-based quantitative real-time PCR

Sample Volume per PCR: 2 µl

Recommended Use: Applicable in research for direct testing of cell cultures and cell culture-derived biologicals. Not applicable for clinical diagnostics.

Kit Components: Primers; Nucleotides; Taq polymerase and Internal Amplification Control; Rehydration Buffer; Positive Control DNA; PCR Grade Water

Shelf Life and Storage: Components can be stored at +2 to +8 °C for at least 12 months. After rehydration the reagents must be stored at ≤ -18 °C.

Required Lab Devices: qPCR cycler with FAM™ and HEX™ filters / Pipetting equipment / Microcentrifuge

Required Consumables: PCR reaction tubes

Order Information

Catalog Number

Cat. No. 11-91025	25 Reactions
Cat. No. 11-91100	100 Reactions
Cat. No. 11-91250	250 Reactions

Additional Product

Venor® GeM Sample Preparation

Description & Features

Venor®GeM Sample Preparation is an extraction kit intended for the isolation of mycoplasma DNA from cell culture or biopharmaceutical material. This DNA extraction kit provides excellent results and can be reliably used in combination with our PCR kits for mycoplasma detection.

Kit Components:

Spin columns; Collection tubes; Conditioner, binding, wash and elution buffers

Sample Volume per Extraction: 200 µl

Required Lab Devices: Pipetting equipment, Heat block, Microcentrifuge

Required Consumables: Tubes, Ethanol, Proteinase K (Opt. Cat. No. 56-0002)

Recommended Use:

For DNA extraction from:

- Cell culture supernatants incl. cells and cell debris
- ATMPs
- Samples with polymers, DMSO and glycerin (e.g. cryoconservation media)
- Cell culture media
- Protein solutions incl. antibodies and enzymes

Storage:

Storage and shipment at ambient temperature

Ordering Information

Catalog Number

Cat. No. 56-1010	10 Reactions	Cat. No. 56-1200	200 Reactions
Cat. No. 56-1050	50 Reactions		



Additionally available products for cell culture screening

	Conventional PCR	qPCR	Extraction Control	Polymerase included	Recommended for research	Recommended for industry / pharma	EP 2.6.7/JP G3 conformity	Description
Venor® GeM Classic Cat. No. 11-1025/ 11-1050 / 11-1100 / 11-1250	y	n	y	n	n	y	y	The classical version for gel evaluation. 20 years of experience, EP 2.6.7, USP <1071> compliant, always improved and the state-of-the-art in DNA-based mycoplasma detection – the optimal choice for money-savers!
Venor® GeM qEP Cat. No. 11-9025/ 11-9050 / 11-9100 / 11-9250	n	y	y	y	n	y	y	qEP stands for qPCR-based, EP 2.6.7, USP <1071> compliant mycoplasma testing. Venor®GEM qEP can be performed with any type of real-time PCR cyclers able to detect the fluorescence dyes FAM™ and HEX™. Two protocols allow the fast screening of research samples or highly sensitive and robust testing of regulated biopharmaceutical samples.
Venor® GeM Advance	y	n	n	y	y	n	n	
Venor® GeM OneStep	y	n	n	y	y	n	n	
Venor® GeM qOneStep	n	y	n	y	y	n	n	

How to order

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The packaging may differ from the original.