

LightMix® OneTube CPO I (RUO)

Qualitative multiplex PCR detection of carbapenemase targets for research use only testing on LightCycler® instruments.



Convenience



Consistency



Fewer plastics and less waste

Primer and probe sets have been premixed and combined for you, reducing error risks associated with complex mastermix preparation. Additionally, you'll receive fewer plastics creating less waste which can support your sustainability goals.

Streamline your workflow with pre-designed, pre-mixed multiplex primer/probe sets, courtesy of TIB Molbiol, for use on LightCycler® platforms¹.



Product concept

1x vial with 6 sets of primer/probes for 96 reactions/20 µL volume.
1x vial Positive Control



Inclusivity

Qualitative multiplex PCR detection and discrimination of 6x Carbapenemase targets :
1) VIM (*blaVIM* gene / Variants 1-36), **2)** NDM (*blaNMD* gene / NDM-1 to13, NDM-16,-17),
3) OXA-48 (*blaOXA-48* gene / OXA-162,-163,-244,-245,-247,- 405) and OXA-23 (*blaOXA-23* / OXA-23,-27, -49,-73,-102,-103,-133,-146,-165,-166,-167,-168,-169,-170,-171,-225,-239, -366,-398,-422,-423, -435,-440,-469,-481,-482,-483), **4)** KPC (*blaKPC* gene / Types 1-11), **5)** GES (*blaGES* gene / GES1-11, **6)** IMP (*blaIMP* gene, most variants)



Exclusivity

1) GES (*blaGES* / GES-32,-41,-44,-59), **2)** IMP (*blaIMP* variants IMP- 16,-31,-35, -46,-74,-92,-93)



Sensitivity

This assay detects 10 genome equivalent copies or less per reaction (plasmid DNA dilution).



Sampling

Typical specimens are faecal samples, rectal swabs, body swabs



Usage

Refer to **Instructions for Use**. Default thermal cycling protocol recommended.



Labelling

RUO²



Stability

18 months

¹Compatible with LightCycler® PRO and LightCycler® 480 II²

²For Research Use Only. Not for use in diagnostic procedures.

Reference: LightMix® OneTube CPO I, Package Insert.

Ordering Information

Product name	Reactions/volume	Material number
LightMix® OneTube CPO I (RUO)	96 reactions/20 µL	10409401001
LightCycler® Multiplex DNA Master	200 reactions/20 µL	07339585001
	1000 reactions/20 µL	07339577001
PhHV Extraction Control (660)	96 reactions/20 µL	07093802001

For Research Use Only. Not for use in clinical diagnosis.

Channel configuration

Five optical channels are used to detect the following targets. The 660 channel is recommended for the PhHV Extraction Control

500	530	580	610	640	660	700
VIM	NDM	OXA-48/OXA-23	KPC	GES	PhHV EC	IMP



LightCycler® PRO System

Reference: LightMix® OneTube CPO I, Package Insert.

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