



Accurate and Reliable Detection  
of Ebola Zaire Virus

■ Xpert® Ebola





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The goal of interrupting chains of Ebola virus transmission depends heavily on laboratory support. This support is needed to confirm or discard suspected cases, guide triage and clinical decisions, aid contact tracing, and facilitate the early detection of cases.”

**World Health Organization.**

As reported in *Ebola situation assessment*.  
18 Nov 2014.<sup>1</sup>



## The Need

Since the first discovery of Ebola virus in 1976, Ebola virus disease (EVD) has occurred sporadically throughout West Africa.

EVD is a severe and highly contagious illness. Case fatality rates have varied from 25% to 90% in past outbreaks.<sup>2</sup> However, the survival rate can improve dramatically with implementation of early supportive care.<sup>2</sup>

The Ebola outbreak has spread beyond Africa and reached Europe and the United States. The global outbreak of EVD heightens the need for a fast and accurate diagnostics.



## The Impact

Xpert® Ebola can accelerate your laboratory's workflow with on-demand, random-access flexibility. In combination with over 30 other available tests (including Xpert **Xpress** CoV-2/Flu/RSV **plus**, Xpert MTB/RIF Ultra, Xpert HIV-1 Qual XC and Xpert HIV-1 Viral Load XC, Xpert HPV and Xpert HBV Viral Load), Cepheid's GeneXpert® system delivers proven productivity increases in overall laboratory service.<sup>4</sup>

### Be Prepared

- Fast turn-around time – results in approximately 90 minutes
- Sensitive: can detect as few as 0.13 PFU/mL of Ebola Zaire virus<sup>#</sup>
- Simple sample processing makes the test ideal for emergency use
- Accepts whole blood (EDTA or finger-stick) specimens

\* No false positive after 17 million anthrax tests as of November 2020; Not for diagnostic use.

<sup>^</sup> Inactivated sample can be handled in BSL2 laboratory.<sup>3</sup>

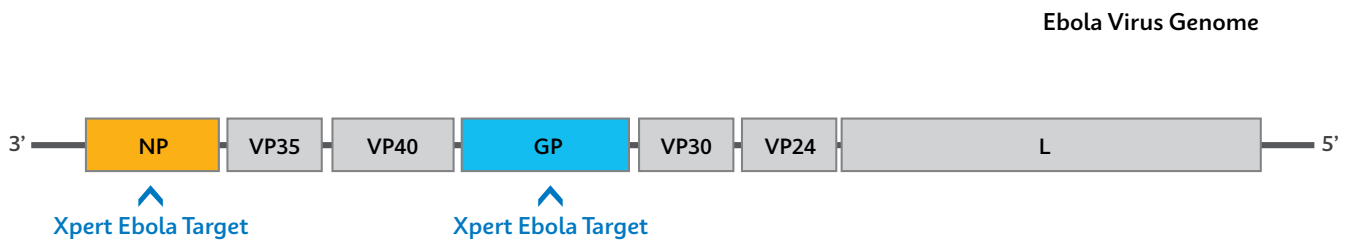
<sup>#</sup> Ebola Zaire Makona- Gueckedou 05 virus.

Coverage, plus  
Accuracy, plus  
Peace of mind

That's the **PCR<sub>plus</sub>** advantage.  
From Cepheid.

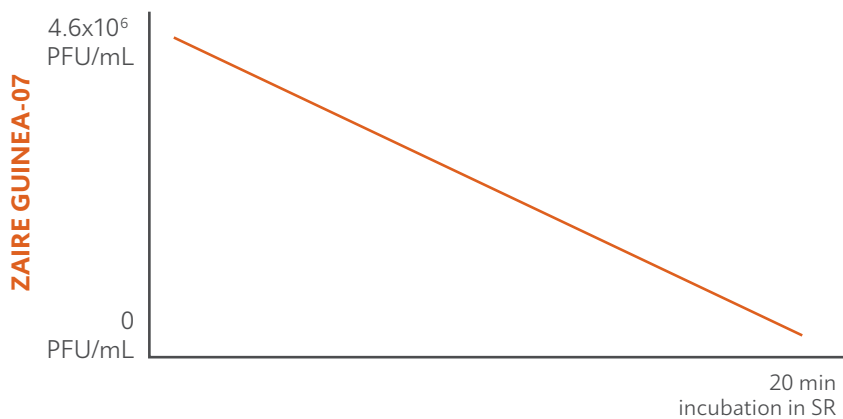
## Impact of Dual Target Assay Design

Ensures Accurate Detection of Ebola Zaire Virus



## Impact of Biosafety<sup>^</sup>

Virucidal Efficacy of Xpert Ebola Sample Reagent



Graphical representation of Cepheid internal data in collaboration with University of Texas Medical Branch (UTMB) Galveston

<sup>^</sup> Inactivated sample can be handled in BSL2 laboratory.<sup>3</sup>

## Workflow: 3 Easy Steps

1

Add sample to the Sample Reagent Tube and incubate for 20 minutes at room temperature



2

Pipette inactivated sample into cartridge



3

Insert cartridge and start test



PNPN00008-01

### Catalog Information

Xpert® Ebola	10 tests	GXEBOLA-CE-10
	50 tests	GXEBOLA-CE-50

### SAMPLE COLLECTION DEVICE

Ebola Sample Collection Device	50 swabs	SWAB/E-50
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### References:

- 1 WHO. Urgently needed: rapid, sensitive, safe and simple Ebola diagnostic tests. Ebola situation assessment. 18 Nov 2014. Accessed May 2021. <http://www.who.int/mediacentre/news/ebola/18-november-2014-diagnostics/en/>
- 2 WHO. Ebola virus disease. Feb 2021. <https://www.who.int/news-room/fact-sheets/detail/ebola-virus-disease>
- 3 WHO. Laboratory Guidance for the Diagnosis of Ebola Virus Disease. Interim Guideline. 2014 Sept 19.
- 4 Speedy Ebola tests help contain Africa's latest outbreak. 2018 June 11. <https://www.nature.com/articles/d41586-018-05389-2>

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