

Xpert®  
Ebola



# Xpert® Ebola

Accurate and reliable detection of Ebola Zaire Virus

CE IVD In Vitro Diagnostic Medical Device

 **Cepheid®**  
A better way.



*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. The fatality rate can be as high as 90%. However, the survival rate can improve dramatically with implementation of early supportive care.<sup>2</sup>

The most recent 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 SOLUTION

### Xpert Ebola delivers:

- Unprecedented sensitivity for detecting Ebola virus
- Dual target design, also found in the Cepheid's Anthrax test\*, ensures high accuracy
- Sample Reagent that reduces biohazard risk to manageable level<sup>^</sup>
- On-demand results that empowers physicians to manage crisis
- Self-contained cartridge system that minimizes potential contamination

\* No false positive after 13+ million anthrax tests as of March 2015; Not for diagnostic use

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



# THE IMPACT



Xpert® Ebola will accelerate your laboratory's workflow with on-demand, random-access flexibility. In combination with other available Xpert® tests (including Flu/RSV XC, GBS, MRSA, *C. difficile*, CT/NG, and MTB/RIF), Cepheid's GeneXpert® System delivers proven productivity increases in overall laboratory service.

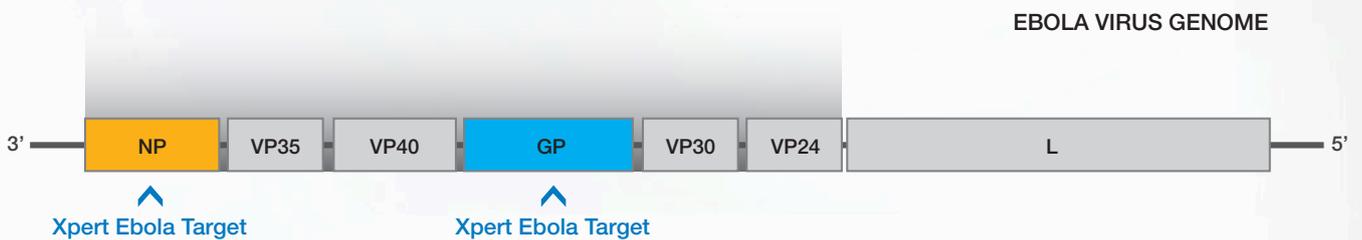
## Be Prepared

- Fast turn-around time – results in 98 minutes
- Ultrasensitive: can detect as few as 0.13 PFU/mL of Ebola Zaire Virus
- Simple sample processing makes the test ideal for emergency use
- Accepts whole blood (EDTA or finger-stick) or buccal swab specimens



## IMPACT OF DUAL TARGET ASSAY DESIGN

Ensures accurate detection of Ebola Zaire Virus



## IMPACT ON BIOSAFETY<sup>^</sup>

VIRUCIDAL EFFICACY OF XPRT EBOLA SAMPLE REAGENT<sup>4</sup>



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

Total hands-on time: <1 Minute

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



➤ **Xpert® Ebola is a qualitative real-time reverse transcriptase PCR test for automated detection of Ebola Zaire virus.**

#### CATALOG NUMBER

Xpert Ebola (10 tests) .....	GXEBOLA-CE-10
Xpert Ebola (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 Apr 2015. <http://www.who.int/mediacentre/news/ebola/18-november-2014-diagnostics/en/>
2. WHO. Ebola virus disease. Fact sheet N°103. Updated Apr 2015. Accessed Apr 2015. <http://www.who.int/mediacentre/factsheets/fs103/en/>
3. WHO. Laboratory Guidance for the Diagnosis of Ebola Virus Disease. Interim Guideline. 2014 Sept 19.
4. Mire CE, et al. Detection of Multiple Zaire Ebolavirus Isolates using a Novel Xpert Ebola Assay. Poster session presented at: 7th International Symposium on Filoviruses. 2015 Mar 25-28. Washington, USA.

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