

CBNAAT (GeneXpert)

All Notified TB patients

Non-responder to Treatment
DS TB
H mono/poly

Presumptive TB

PLHIV • EPTB

Smear negative or not available with x-ray suggestive of TB including pediatric

Vulnerable population

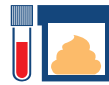
Contact of DR TB patient

Samples from private sector

Samples processed by CBNAAT

Pulmonary TB

Sample for PTB - 5 ml mucopurulent sputum without saliva or blood



Blood and faeces are not samples for TB diagnosis

Extrapulmonary TB¹



TB lymphadenitis
Lymph node aspirate or biopsy



Ascites (Abdominal TB)
Ascites fluid and peritoneal biopsy



TB meningitis
Cerebrospinal fluid (CSF)



Bone and joint TB
Bone/synovial tissue via biopsy



Urinary tract and kidneys TB
Urine and tissue via biopsy



Genitourinary tract TB
Tissue via biopsy (Endometrial tissue in women)



Pleural effusion (TB pleuritis)
Pleural fluid and pleural biopsy

CBNAAT test will be conducted at the nearest public sector lab

Need help? Contact:

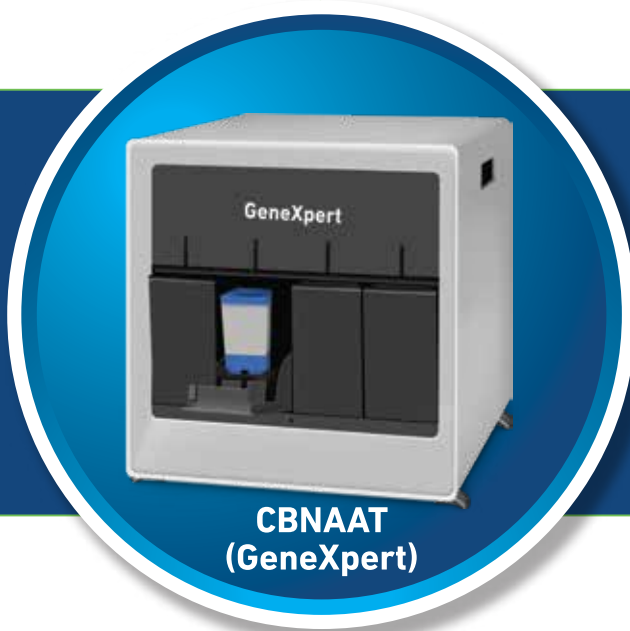
Name: _____ Contact no.: _____

Flip this for more information about CBNAAT

8.3" (Inch)

CBNAAT (Cartridge-based nucleic acid amplification test) is a fast, automated and qualitative real-time PCR test that analyzes the sputum specimens for identification of^{2,3}:

- Mycobacterium Tuberculosis Complex (MTB) DNA
- Resistance to rifampicin (RIF)
- Recommended by WHO for detection of pulmonary and extrapulmonary TB in adults as well as children
- Testing time only 2 hours



CBNAAT (GeneXpert)

Sensitivity & specificity of CBNAAT

Sample	Sensitivity [#]	Specificity [#]
Lymph nodes	83%	94%
CSF	81%	98%
Pleural fluid	46%	99%
Sputum	94%	99%

[#]Compared to culture as the reference standard

Source:
1. Diagnosis of Tuberculosis: Importance of appropriate specimen collection. GP clinics. Let's talk TB (supplement) First edition 2014.
2. WHO.int. (2014). WHO Global Tuberculosis Report 2013. [Online] Available at: http://apps.who.int/iris/bitstream/10665/91335/1/9789241564656_eng.pdf [Accessed 1 Aug. 2014].
3. Boehme, C., Nicol, M., Nabeta, P., Michael, J., Gotuzzo, E., Tahiri, R et al (2011). Feasibility, diagnostic accuracy, and acceptiveness of decentralised use of the Xpert MTB/RIF test for diagnosis of tuberculosis and multidrug resistance: a multicentre implementation study. The Lancet, 377(9776), pp.1495-1505 PCR Polymerase Chain Reaction.

8.3" (Inch)

5.8" (Inch)