

# VisionArray® MYCO Chip 2.0



## Introduction

The VisionArray® MYCO Chip 2.0 is intended to be used with a VisionArray® Analysis Package for the qualitative detection and identification of PCR amplicates of the genera *Mycobacterium*, *Mycobacteroides*, *Mycolicibacillus*, *Mycolicibacter*, and *Mycolicibacterium* as well as several clinically relevant mycobacterial species that have been produced with the help of the VisionArray® MYCO PreCise Master Mix 2.0.

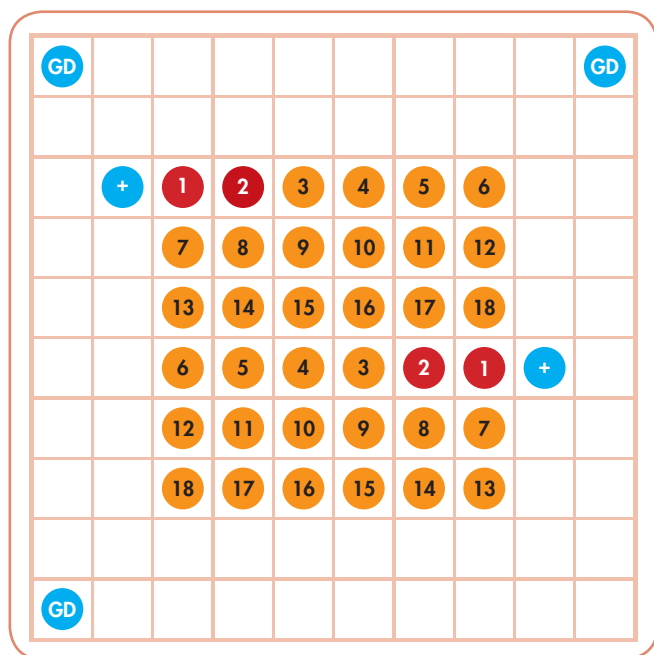
The mycobacterial genera comprise more than 140 species, which, for the purpose of diagnosis and treatment, have been grouped into three categories: *M. tuberculosis complex* (MTC), *M. leprae*, and non-tuberculous mycobacteria (NTM).

The majority of the *Mycobacterium* species belongs to the NTM group and can be found in different environments. Many of these bacteria cause life-threatening infections in humans and in recent years, the mortality and morbidity associated with NTMs has increased especially in immunocompromised patients worldwide. Treatment of NTMs is specific to each species and therefore a clear distinction between the present species is of extreme importance.

Reliable and rapid molecular diagnostics are the basis of an adequate therapy that is given by the VisionArray® MYCO Chip 2.0.

## Chip Description

The VisionArray® MYCO Chip 2.0 is designed to detect several clinically relevant mycobacterial species. All capture sequences and the positive control are set up on the Chip as duplicates and the guide dots as triplicates. The signals are visible on the Chip as dark blue areas. The automated evaluation of the results is performed by a VisionArray® Analyzer Software.



GD Guide Dot

+ Positive Control

### M. tuberculosis (MTC) complex

- 1 M. tuberculosis complex (ITS Region)
- 2 M. tuberculosis complex (IS6110 Region)

### Nontuberculous Mycobacteria (NTM)

- 3 M. abscessus
- 4 M. avium / M. intracellulare complex
- 5 M. chelonae
- 6 M. chimaera **NEW SPECIES**
- 7 M. fortuitum
- 8 M. genavense
- 9 M. gordonae **NEW SPECIES**
- 10 M. haemophilum
- 11 M. kansasii
- 12 M. malmoense
- 13 M. marinum / M. ulcerans
- 14 M. scrofulaceum / M. parascrofulaceum
- 15 M. simiae
- 16 M. smegmatis
- 17 M. szulgai
- 18 M. xenopi

#### References

- Griffith DE, et al. (2007) Am J Respir Crit Care Med 175: 367-416.  
 Gupta RS, et al. (2018) Front Microbiol 9: 67.  
 Oren A & Carrity GM (2019) Int J Syst Evol Microbiol 69: 597-9.  
 Perez-Martinez I, et al. (2013) BMC Res Notes 6: 531.  
 Simons S, et al. (2011) Emerg Infect Dis 17: 343-9.  
 Tortoli E (2009) Clin Microbiol Infect 15: 906-10.

Prod. No.	Product	Tests
VA-0005-10	VisionArray MYCO Chip 2.0 Incl. 10 pieces CE IVD <b>NEW SPECIES</b>	10
VA-0005-50	VisionArray MYCO Chip 2.0 Incl. 5x 10 pieces CE IVD <b>NEW SPECIES</b>	50

CE IVD only available in certain countries. All other countries research use only! Please contact your local dealer for more information.