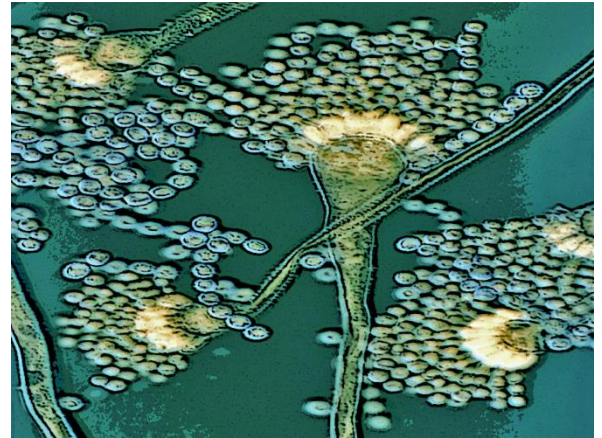


# Product Information

## Fungi 2.1

LCD-Array Kit

For Research Use Only [RUO]



Parallel identification of *Candida* and *Aspergillus* species and 7 other fungal pathogens



### Simple

PCR based macro array assay on polymer supports.



### Robust

Non fluorescent detection chemistry.



### Fast

90 minutes PCR, 45 minutes array protocol.



### Cost efficient

Minimal lab instrumentation required.



### Reliable

Automatic, software assisted data read-out.

Technology for your daily routine.

# Product Information Fungi 2.1

## Assay Principle

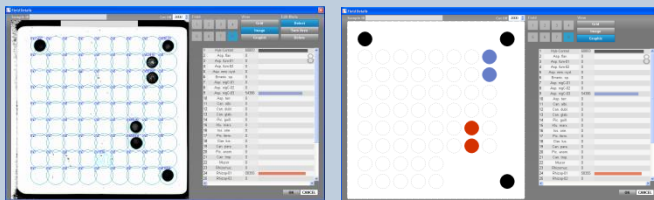
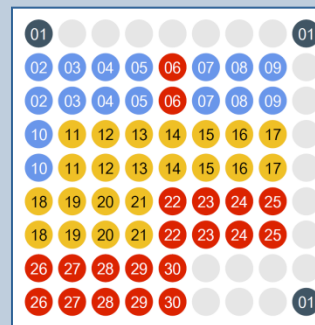
Using the provided primer mixes, biotinylated PCR products are generated from sample material containing extracted fungal DNA. The labeled amplicons are hybridized to species specific capture probes immobilized on the LCD-Chip surface. Following a short wash routine, comprising high stringency, visualization of bound amplicons is mediated by an enzyme-substrate cascade. Each LCD-Chip contains eight identical micro arrays separated in small reaction chambers which can be addressed individually.

## Target Region & Sensitivity

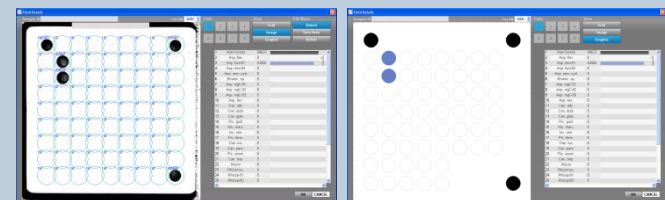
The primer mix is directed against highly conserved motifs flanking the internal transcribed spacer region (ITS2) of fungal genomes. Specific capture probes immobilized as duplicates permit the simultaneous identification of 24 fungal pathogens on the species or genus level or as members of a specific complex. Due to the small amplicon sizes (~250-300 bp) the assay is well suited for the analysis of FFPE tissue sections. The detection limit of the assay equals 10 genome equivalents (GE) per reaction. With respect to the ongoing changes in fungal systematics and the uncertainty of several data base entries, a detailed description of probe specificities is provided within the kit manual.

01	Hyb-Control	10	<i>Aspergillus terreus</i>
02	<i>Aspergillus flavus</i>	11	<i>Candida albicans</i>
03	<i>Aspergillus fumigatus</i> 01	12	<i>Candida dubliniensis</i>
04	<i>Aspergillus fumigatus</i> 02	13	<i>Pichia guilliermondii</i> (Candida)
05	<i>Aspergillus versicolor</i>	14	<i>Kluyverycella marxianus</i> (C.kefyr)
06	<i>Emericella</i> spp.	15	<i>Isaatschenkia orientalis</i> (C.krusei)
07	<i>Aspergillus niger</i> Complex 01	16	<i>Candida albicans</i>
08	<i>Aspergillus niger</i> Complex 02	17	<i>Pichia fermentans</i> (C.lambica)
09	<i>Aspergillus niger</i> Complex 03	18	<i>Clavospora lusitanae</i> (Candida)
		19	<i>Candida parapsilosis</i>
		20	<i>Pichia anomala</i> (C.pelliculosa)
		21	<i>Candida tropicalis</i>
		22	<i>Mucor</i> spp. Complex
		23	<i>Rhizomucor pusillus</i>
		24	<i>Rhizopus</i> Complex 01
		25	<i>Rhizopus</i> Complex 02
		26	<i>Rhizopus</i> Complex 03
		27	<i>Cryptococcus neoformans</i>
		28	<i>Paecilomyces variotii</i>
		29	<i>Scedosporium prolificans</i>
		30	<i>Absidia corymbifera</i>

## Array Pattern



A : Double infection *Aspergillus niger* and *Rhizopus* sp.

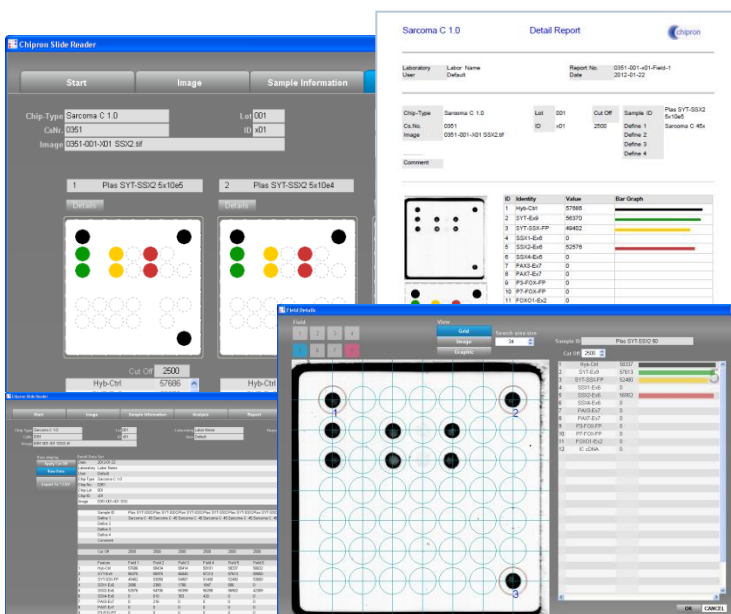


B : Detection of *Aspergillus fumigatus*

## Software

### SlideReader V12

- Fully automated image analysis
- Data reports in PDF format
- Win XP & WIN7 compatible



## Instruments

### CHIP-Scanner PF7250u



- Transmission light scanner for LCD-Arrays,
- 10 µm resolution

### CHIP Spin FVL2400



- Bench Top mini centrifuge
- 2400 rpm, constant
- Adaptor for LCD-Arrays

Order Information		Cat. N°.
Fungi 2.1	LCD-Array Kit, 32 Tests	F-100-04
Fungi 2.1	LCD-Array Kit, 96 Tests	F-100-12
	CHIP-Scanner PF7250u	HS-500-01
	CHIP-Spin FVL2400	HS-300-01
	SlideReader Software	HS-200-01