



Sexually Transmitted Diseases

Fast and Accurate



MAIS Robots



VitroCycler



HS12auto



OVTS

Sexually transmitted diseases (STDs) are a threat to human health¹.

- ✓ They are among the five diseases that most affect the health of adults.
- ✓ More than 1 million people worldwide acquire STDs every day.
- ✓ Treatment is complicated and expensive.
- ✓ Many of these infections are asymptomatic.
- ✓ Left untreated, STDs can affect reproductive organs of both genders leading to infertility, miscarriage, ectopic pregnancy, uterine tumors, etc..

What do the guidelines recommend?

- ✓ Population screening of women > 25 years and/or 25 < years at risk of infection.
- ✓ STD detection by molecular techniques.
- ✓ Same day treatment.

SOLUTION

- Identification of the different pathogens by molecular methods.
- One only sample taken from the patient.

IMPACT

- Reduces the use of antibiotics.
- Improves patient's life.
- Prevents the spread of the disease.



¹Laboratory diagnosis of sexually transmitted infections, including human immunodeficiency virus. World Health Organization 2013. ISBN 978 92 4 150584 0.

²Coleman JS et al. Obstet Gynecol Surv. 2013;68:43-50. 5. Centers for Disease Control and Prevention. <https://www.cdc.gov/std/tg2015/>. Accessed September 20, 2016.

³Sexually Transmitted Infections Treatment Guidelines, 2021. Morbidity and Mortality Weekly Report. Recommendations and Reports / Vol. 70 / No. 4 July 23, 2021.

Why use Vitro's kits?



MULTIPLE
SAMPLE TYPES



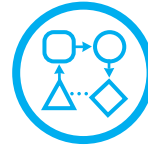
UNG ENZYME
INCORPORATED TO AVOID
CONTAMINATIONS



INTERNAL
CONTROL



RAPID



EASY
WORKFLOW



FULL
TRACEABILITY



STI CNM Real Time PCR Kit

In vitro diagnostic kit for the qualitative detection of DNA from pathogenic organisms causing sexually transmitted diseases (STD) in humans such as *Chlamydia trachomatis*, *Neisseria gonorrhoeae* and *Mycoplasma genitalium*.

It also detects the human beta globin gene as an internal control of the starting and amplification material quality.

In order to avoid contamination with previous PCR products, the Mix contains the enzyme Uracil DNA glycosylase (Cod-UNG), which degrades PCR products containing dUTP.

STD Direct Flow Chip kit

The STD Direct Flow Chip kit allows the simultaneous detection of 11 pathogen: *Chlamydia trachomatis*, *Haemophilus ducreyi*, Herpes simplex virus 1, Herpes simplex virus 2, *Mycoplasma genitalium*, *Mycoplasma hominis*, *Neisseria gonorrhoeae*, *Treponema pallidum*, *Trichomonas vaginalis* y *Ureaplasma (urealyticum/parvum)*.

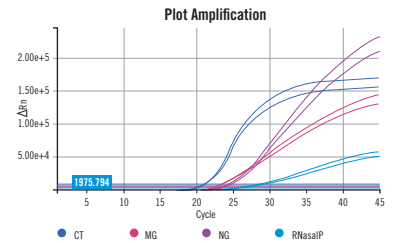
B	MG				CT-S1		B
B		MH			CT-S2		
CI	TV		UU-P	MG		UU-P	
BG		HD				MH	
HSV-1/ HSV-2		NG	B	TV		NG	
	HSV-1		CI		HD		
	CT-S1		TP	BG	HSV-1/ HSV-2		TP
		CT-S2			HSV-1		
	B		pcCT				pcCT

Workflow

SCREENING



Primary Samples
DNA extraction
PCR Plate Preparation



Real Time PCR
(Screening CT/NG/MG)

ROUTINE



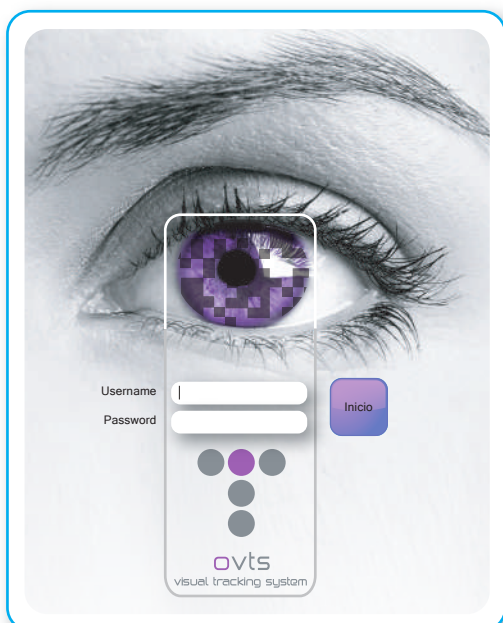
Direct Sample



PCR and Hibridization

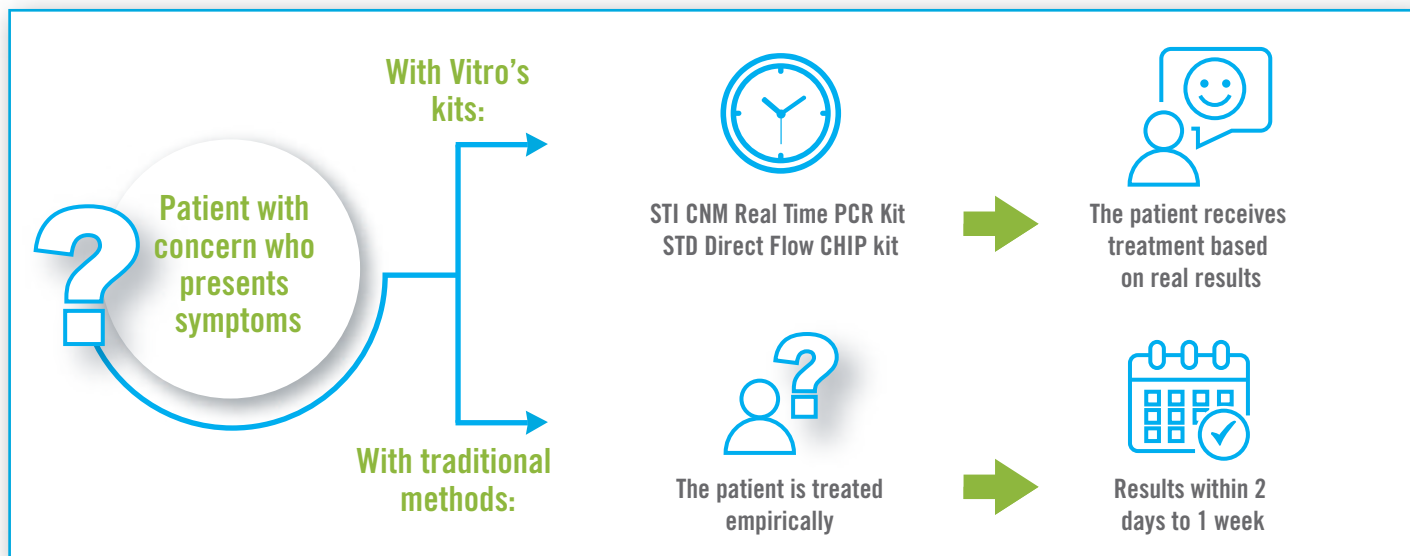


OVTs: Full traceability of the entire process



- ✓ Real-time visualization and knowledge of the status of each element.
- ✓ Graphic illustration of the process.
- ✓ Interpretation of results.
- ✓ Productivity improvement.
- ✓ Ability to connect to any thermal cycler and HybriSpot instruments.
- ✓ Operation of MAIS robots without the need for any other intermediate application.
- ✓ Connection to any of the existing LIS.

Vitro's kits: treatments based on real results



Sample types

All samples are validated for both **symptomatic** and **asymptomatic** patients.

Validated samples

- ✓ Urine.
- ✓ Rectal, anal, pharyngeal and urethral swabs.
- ✓ Liquid cytology.
- ✓ Vaginal and endocervical swabs.
- ✓ Semen.

References

REFERENCE	DESCRIPTION	FORMAT
MAD-003948M-OT	STI CNM PCR Real Time	100 determinations
MAD-003938M-HS	STD Direct FLOW CHIP	24 determinations
MAD-003925M-HS	Flow CHIP Hybridization Reagents	24 determinations

REFERENCE	DESCRIPTION
VIT-MAIS	MAIS System
VIT-HS12A	HybriSpot 12 PCR AUTO
VIT-VITROCYCLER	Thermal cycler VitroCycler



www.vitro.bio

C/ Luis Fuentes Bejarano 60
Ed. Nudo Norte (local 3) 41020 Sevilla
Teléfono: +34 954 93 32 00
pedidos@vitro.bio
www.vitro.bio