Evaluation of VITEK MS Prime Bacterial Identification

performance in conjunction with a Fully Automated

Slide Preparation System in Urine Cultures

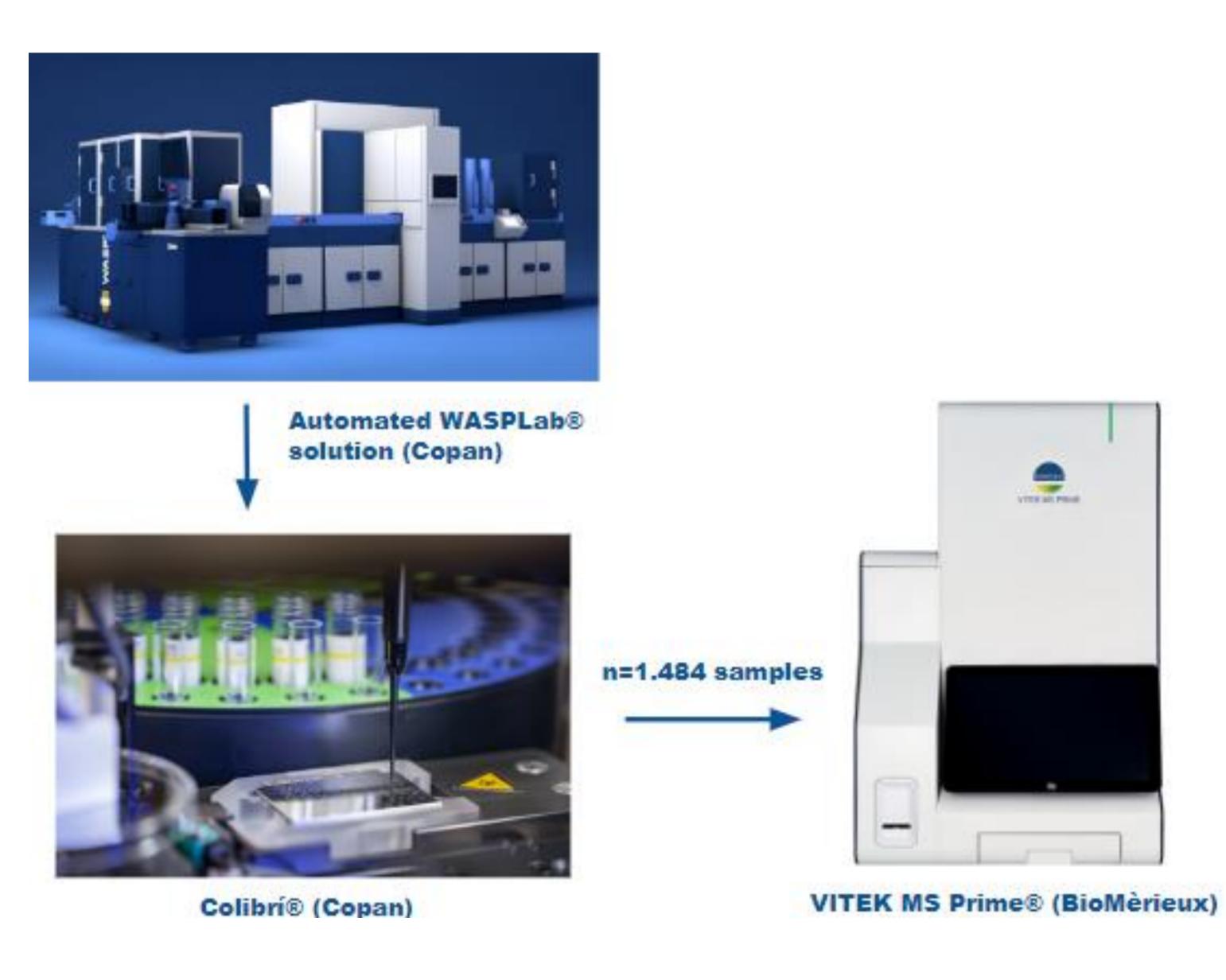
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Background

VITEK MS Prime® (BioMèrieux) is a MALDITOF (MT) tool which offers rapid and costeffective bacterial identification, but manual plate handling, slide spotting, matrix addition and data traceability require a lot of hands-on time. Colibrí® (Copan) is an instrument that automates the picking and deposition of colonies on target slides for MT.

The aim of the present study is to evaluate the identification performance of the VITEK MS Prime ® coupled with the Colibrí®.

Materials and Methods



Results

Bacterial specie	n	Colibrí correct ID (%)	NO ID (%)
Klebsiella spp.	932	920 (98.7%)	12 (1.3%)
Proteus spp.	224	222 (99.1%)	2 (0.9%)
Enterococcus spp.	39	36 (92.3%)	3 (7.7%)
Non-Fermentative GNB	37	37 (100%)	0 (0%)
Other Enterobacterales	216	213 (98.6%)	3 (1.4%)
S.aureus	7	7 (100%)	0 (0%)
S.saprophyticus	11	11 (100%)	0 (0%)
S.agalactiae	12	12 (100%)	0 (0%)
Others	6	5 (83.3%)	1 (16.7%)
Total	1484	1463 (98.5%)	21 (1.5%)

Table 1. Percentage of bacterial species VITEK MS Prime[®] identification (ID) picked by Colibrí[®].

Conclusions

Colibrí® has demonstrated **high efficiency and accuracy** in automated slide preparation for the **VITEK MS Prime® system**. The integration of

Colibrí® into the automated WASPLab® solution
significantly streamlines and standardises manual
sample processing. The combination of both
instruments **reduces the time** spent on manual
management of urine cultures.

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