

Your **Power** for Health



greiner bio-one



VACUETTE® Urine CCM Tubes

The tube for comprehensive
urine diagnostics

Improved diagnostics with the **VACUETTE®** Urine CCM Tube

Besides blood, urine is the most frequently diagnosed specimen material across the world. Clinical chemical analysis methods as well as microscopic and microbiological diagnosis methods are used.

Some bacteria, cells or biochemical parameters, react very sensitively to changes in temperature or storage conditions. Thus if the preanalytical conditions are not ideal, they can be difficult to detect.

A poor quality sample can result in incorrect analysis results and subsequent misinterpretation of the findings. This results in repeated analysis which can be both time and cost consuming with the further disadvantage of being unpleasant for the patient.

A particular problem is bacterial growth in the urine sample. If an unrefrigerated urine sample is stored or transported for too long, bacterial growth reduces the quality of the sample¹.

Some kinds of bacteria divide every 20 minutes at room temperature

If the sample quality is insufficient, pathogenic germs can be overgrown by contaminants

In addition to bacterial growth, biological processes also have an influence on sample quality:

Lysis of the cells can be accelerated in native urine at room temperature

The concentration of various components can change



VACUETTE® Urine CCM Tubes reliably stabilise urine samples for clinical chemical analysis and cultures.



If bacteriological urine examinations cannot be carried out soon (preferably within 2 hours^{2,3}), the sample has to be stored at 4°C, or a preservative has to be added to act as a stabiliser.

The **VACUETTE®** Urine CCM Tube is therefore ideal for samples that have long transportation and/or processing times.

An average of 11.2% of urine samples for clinical chemistry analysis is not processed within the 2-hour limit. These samples are not refrigerated. It would be necessary to stabilise the native urine.⁴

New stabiliser with universal application possibilities

The stabiliser keeps not only clinical chemical components, but also germs, the bacterial count and sediment components stable for up to 48 hours at room temperature, so that there is no need to refrigerate.

The new stabiliser in **VACUETTE®** Urine CCM Tubes (Count and Culture Mannitol Tube) is a combination of various substances. It contains boric acid, sodium tetraborate, sodium formiate and mannitol.

The quick solubility of the stabiliser is a distinguishing feature of the tube. In comparison with other additives, the improved solubility ensures immediate stabilisation of the sample.

The stabiliser preserves urine samples for standard tests*

The **VACUETTE®** Urine CCM Tube can therefore be applied for different areas of urinalysis*

Positive effect on the stocks and warehouse and a simplification of the work processes

How significant is improved sample stability in clinical routine?



Less re-collections



No need for refrigeration



Safer and faster diagnosis



Efficient and economical working procedures save on costs



* The following parameters cannot be determined: sodium, borate, formiate, mannitol, specific weight (relative density) and pH value⁹. For further information please refer to the IFU.

Safety due to convincing product design

Every **VACUETTE®** Urine CCM Tube is closed with a safety cap, protecting staff against splashes and aerosols when opening the tube, which could occur, for example, if using a standard rubber stopper.

The tube is completely leak-proof during transport due to firmly closed container. All tubes are manufactured from PET plastic and are therefore shatterproof.



Greiner Bio-One provides a closed system

No spillages due to open beakers

Reduced risk of contamination

Positive effect on entire working environment

Hygienic

A better, cleaner working environment with the Greiner Bio-One Urine System

When urine is transferred or pipetted into the standard sample container, employees in the healthcare sector are at risk during every step of coming into contact with contaminated samples and bacteria which could be potentially life-threatening.

The sample material is transferred from the Greiner Bio-One Urine Beaker directly by vacuum into the specimen container, thus preventing any contamination.



Item overview

VACUETTE® Urine CCM Tubes

Item no.	Nom. Vol.	Description	Packaging	
			Inner	Outer
Urine CCM Tubes				
455243	9ml	VACUETTE® Urine CCM Tube, Non-ridged, 16x100, Conical Base	50 pcs.	1.200 pcs.
455052	10ml	VACUETTE® Urine CCM Tube, Non-ridged, 16x100	50 pcs.	1.200 pcs.
optional				
724310	100ml	Urine Beaker with Integrated Transfer Device, 100ml, sterile	1 pc.	200 pcs.

VACUETTE® Urine CCM Tubes have been tested on the following analyzers:

- Sysmex UF-1000i Flow Cytometer⁵
- Iris iQ® 200 Microscopy Analyser⁶
- Alfred 60 and HB&L Uroquattro from Alifax®

VACUETTE® Urine CCM Tubes have been tested with the following test strips⁷:



- Uryxxon® 10 Test Strips Uryxxon® 500 Instrument, Machery-Nagel
- Combur® 10 urine strip test®, Roche Diagnostics GmbH
- Multistix® 10 SG Urine test strips, Siemens Health Care Diagnostics
- Iris iChem® VELOCITY™ Chemistry Analyser

Literature

- 1 **VACUETTE®** Preanalytics Manual pp.51-55 Greiner Bio-One 2011
- 2 CLSI. Urinalysis; Approved Guideline – Third Edition. GP16-A3. Vol 29 No 4.
- 3 European Urinalysis Guidelines. Scan J Clin Lab Invest 2000. 60:1:1-96.
- 4 Timeliness of urinalysis: a College of American Pathologists Q-Probes study of 346 small hospitals Howanitz PJ, Saladino AJ, Dale JC Arch Pathol Lab Med. 1997 121(7):667-672
- 5 Evaluation of the **VACUETTE®** Urine CCM tubes for Urine Sediment testing on the Sysmex UF-1000i flow cytometer. Internal Study from GBO.
- 6 Scott, G. Greiner Bio-One **VACUETTE®** Urine CCM Tube. White Paper from Iris Diagnostics
- 7 Evaluation of **VACUETTE®** Urine CCM Tubes for Urine Strip Testing. Internal Study from GBO. IN272.
- 8 Instructions for Use. Urine CCM Tube. Greiner Bio-One.



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