

making a difference



FOR HYGIENIC AND SAFE ROUTINE URINE COLLECTION

VACUETTE®

Urine System

The practical solution for
standardized preanalytics


greiner
BIO-ONE

Greiner Bio-One
offers a complete
range of products
for urine collection.



Well-standardized procedures for collection, transport, sample preparation and analysis should become the basis of an effective diagnostic strategy for urinalysis.¹

THE PRACTICAL SOLUTION FOR STANDARDIZED PREANALYTICS

Urine is an easily obtained sample and can be valuable for both the diagnosis and monitoring of various health conditions. To ensure sample quality, proper collection, transport, storage and handling are essential.

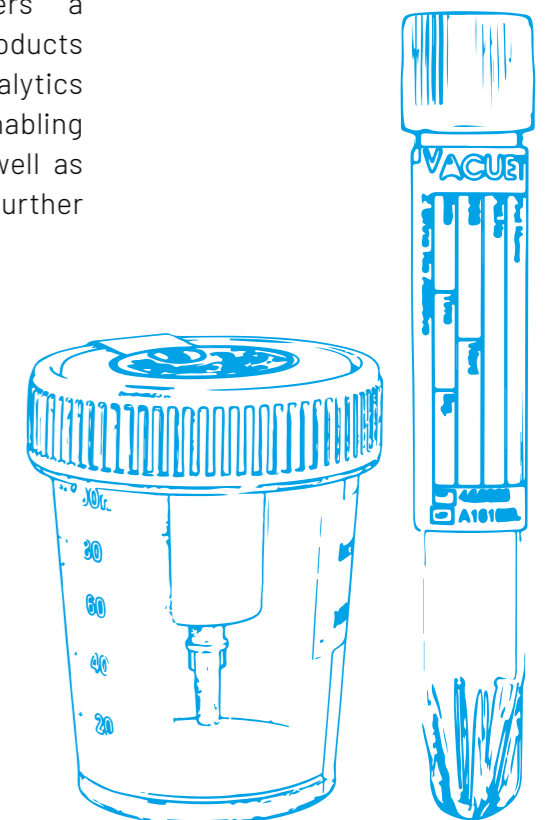
Standardization of collection, transport, storage and

handling should be the basis for quality samples and effective diagnosis.

Greiner Bio-One offers a complete range of products to suit routine preanalytics in urine collection, enabling hygienic collection as well as stability of samples for further processing.

HYGIENIC AND SAFE.

- / Closed system for improved hygiene.
- / Collection, transportation, analysis and storage, all with one single sterile vacuum tube.
- / Complete range of products covers all needs.
- / Enables standardized preanalytics.



OVERVIEW OF TUBE TYPES AND AREAS OF APPLICATION

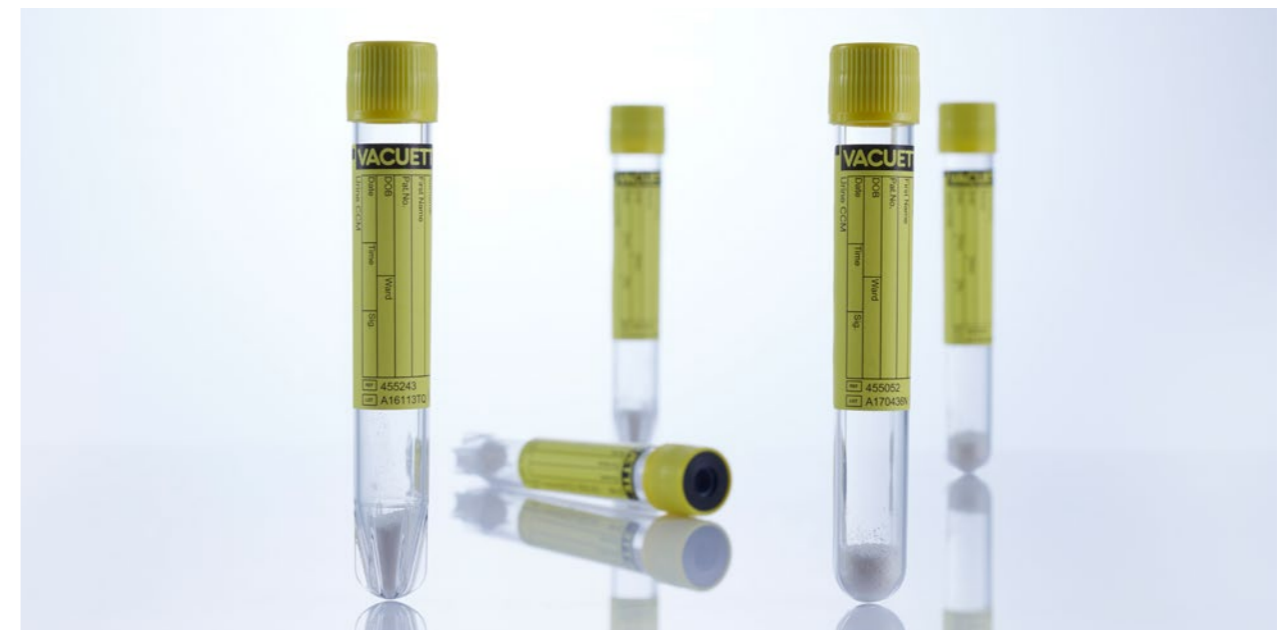
VACUETTE® URINE NO ADDITIVE TUBES



This tube serves as both a collection tube and/or transport container, suitable for use with chemical analysis and dipstick testing. It is recommended that the analysis is carried out as soon as possible after the collection. During the preanalytical phase, the stability of the sample is influenced by storage temperature and time. If the specimen cannot be tested within 4 hours of collection, it should be refrigerated (per CLSI PRE05²).

The conical based VACUETTE® Urine No Additive tubes can be used as collection tubes and/or transport containers to facilitate manual processing of urinary sediment for microscopy. The recommended examination material for microscopical evaluation of sediment is mid-stream urine.

- / For both collection and/or transport.
- / For chemical analysis or dipstick testing.



VACUETTE® URINE CCM TUBES

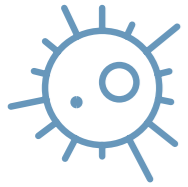
The VACUETTE® Urine CCM tubes contain a stabilizer in powder form, which prevents bacterial and yeast growth by stabilizing the sample at room temperature (20-25°C) for up to 48 hours. This stabilization is achieved by the quick solubility of the additive, making the product especially suitable in cases when the analysis via culture takes place later. This tube can be used as collection tube and/or transport container for microbiological tests.

The stabilizer in VACUETTE® Urine CCM tubes is a combination of components including boric acid, sodium tetraborate, sodium formate and mannitol. The quick solubility of the stabilizer is a distinguishing feature of the tube. In comparison with other additives, the improved solubility of the powder form additive ensures immediate stabilization of the sample.

- / With a stabilizer in powder form to prevent bacterial and yeast growth, suitable for cases when culture analyses take place later.
- / Ensures a stable sample for up to 48 hours when stored at room temperature.

AREAS OF APPLICATION:

	Clinical chemistry	Dipstick testing	Sediment analysis	Culture
VACUETTE Urine No Additive Tubes	✓	✓	✓	
VACUETTE Urine CCM Tubes				✓



VACUETTE® URINE CCM TUBES FOR IMPROVED DIAGNOSTICS

- / Some bacteria divide every 20 minutes at room temperature
- / If the sample quality is insufficient, pathogenic germs can be overgrown by contaminants

Urine is a commonly analyzed specimen material in the laboratory. Various analytical methods are used, such as microbiological culture.

Some bacteria are very sensitive to changes in temperature or storage conditions, so if the preanalytical conditions are not ideal, reliable detection can be difficult.

A poor quality sample can lead to incorrect analytical results and subsequent misdiagnosis. In the worst case, this can lead to an inappropriate therapy but in other cases may mean that collection for a new analysis has to be repeated. This impacts the patient negatively and also drains costs and staff resources.

A common problem is bacterial growth in an unpreserved or unrefrigerated urine sample. When stored or transported for an extended period of time, continued bacterial growth due to lack of sample preservation can reduce the sample quality³.

A urinary tract infection is typically defined as a bacterial growth in urine $\geq 10^5$ CFU/ml (colony forming units per ml). A stable urine sample for microbiological analysis is important for an accurate diagnosis.

If bacteriological urine examinations cannot be carried out in a timely manner (preferable within 4 hours²), the sample has to be stored at 4°C or a tube with a stabilizing preservative should be used.



The VACUETTE® Urine CCM tube is ideal for samples that have long transportation and/or handling times.

RECOMMENDATIONS TO MAINTAIN GOOD SAMPLE STABILITY



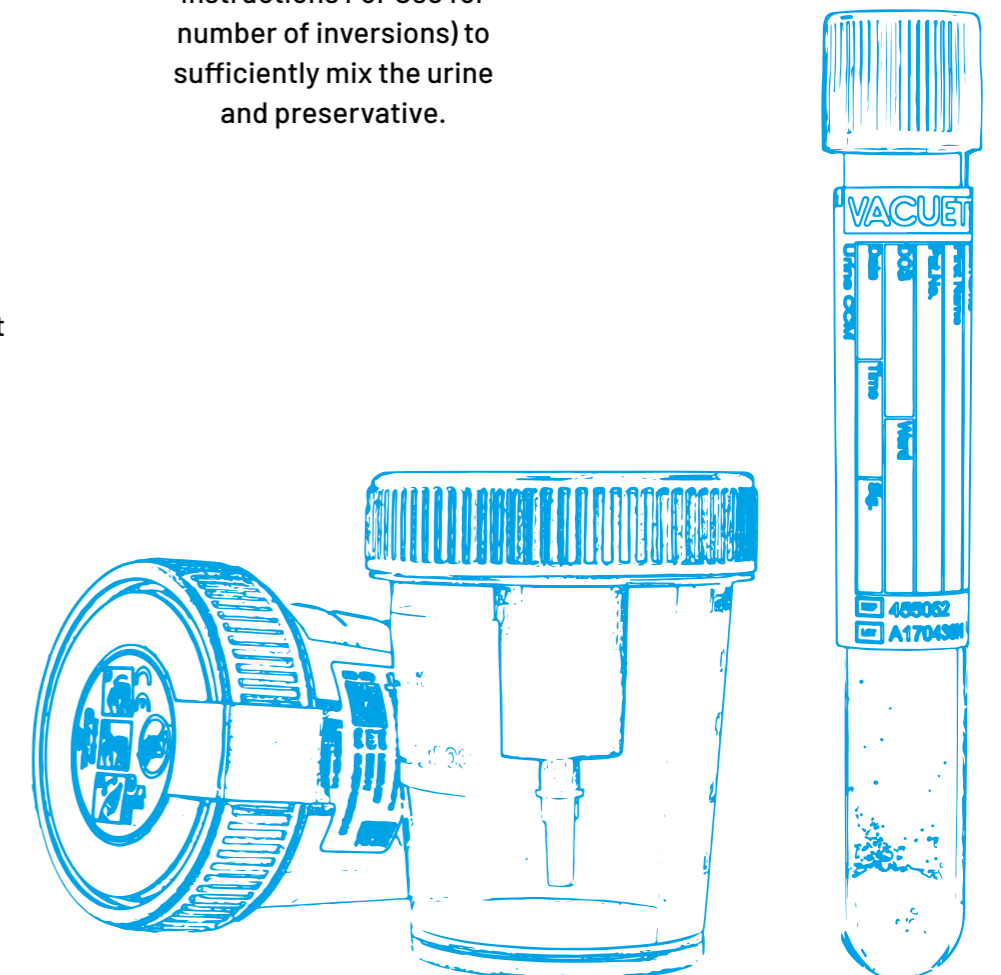
If the sample needs to be kept in the urine cup for a longer period of time, it should be **carefully mixed**, simply by gently swirling, to homogenize the sample until it can be transferred to a tube.



When using VACUETTE® urine tubes with stabilizers, tubes should be **fully inverted several times** (see Instructions For Use for number of inversions) to sufficiently mix the urine and preservative.



Exclusive **use of a sterile urine cup** for urine collection will contribute to less risk of contamination, important for sample quality.



READY TO USE SETS

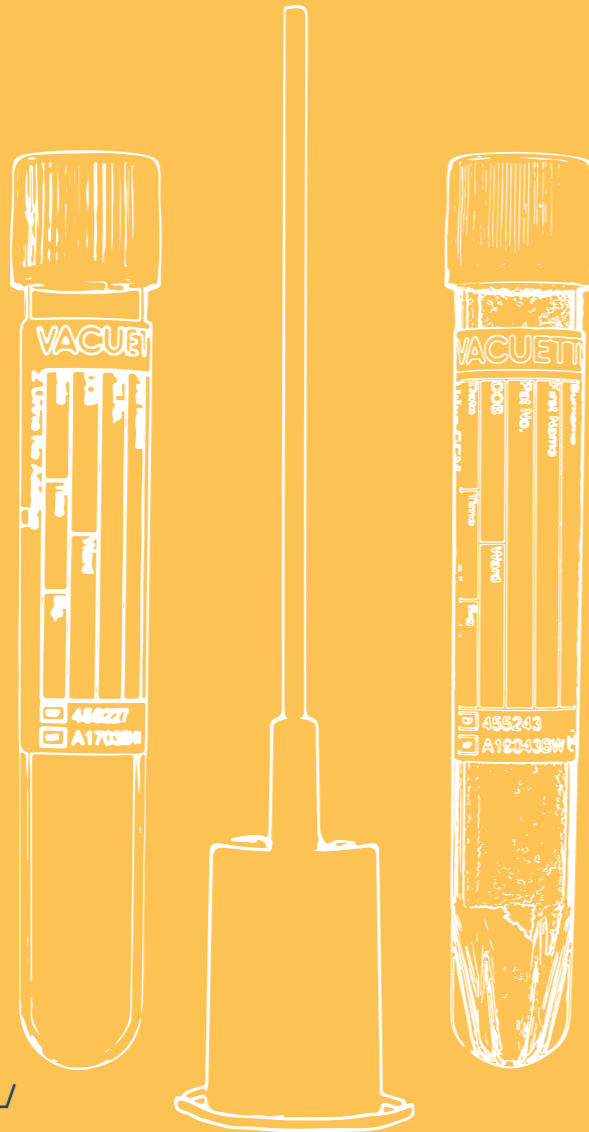
Available in a variety of options, in an easy to tear open pouch.

URINE SETS - HAVE ALL YOU NEED READY TO USE

Greiner Bio-One has a range of ready to use sets for urine testing. Ideal not just for mobile healthcare workers but also in different departments within hospitals, in smaller spaces, where bulk packaged products are not practical or anywhere where convenience is key.

The VACUETTE® Urine No Additive tube serves as both a collection tube and/or transport container, suitable for use with chemical analysis and dipstick testing.

Available with round or conical base.



With VACUETTE® Urine CCM the sample remains stable at room temperature for up to 48h.

CCM tube preservative in powder form for good solubility and immediate stabilization.

FOR DETAILS ON THE AVAILABLE OPTIONS

please refer to the product overview.

URINE NO ADDITIVE SETS

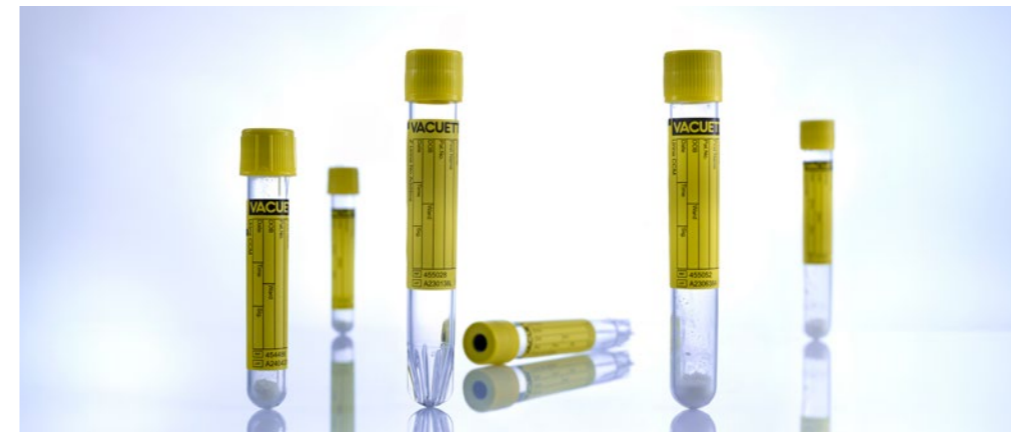


For transporting urine samples for chemical and dipstick testing, a set containing a VACUETTE® Urine No Additive tube with a urine transfer device is also available.

URINE CCM SETS



The VACUETTE® CCM Urine tube is also available in a practical set: VACUETTE® CCM Urine tube with Urine Transfer Device.



COVERING DIFFERENT NEEDS

Greiner Bio-One offers various tube types for routine urine preanalytics, including urinalysis, culture or urine microscopy.

A COMPREHENSIVE RANGE OF ACCESSORIES

In addition to the VACUETTE® Urine Tubes, Greiner Bio-One offers urine cups with integrated transfer device to ensure clean sample transfer. The range of accessories also includes the Urine Transfer Device in a long or short version, covering your needs.

A 24h urine container is also available in two versions, with or without integrated transfer device. The containers are brown coloured to prevent the premature decomposition of light sensitive parameters such as urobilinogen.



URINE CUPS

The urine cups from Greiner Bio-One come with a transfer device already integrated in the cap. This feature gives you the advantage of a closed system, ensuring a clean and hygienic sample transfer into a tube.



URINE TRANSFER DEVICES

The Urine Transfer Device allows easy and hygienic transfer of sample material from a collection container. The product is available in two lengths.



24H URINE CONTAINERS

The 24h urine collection container is available as a 2.7 litre version or as VACUETTE® URI-PLUS with a 3 litre volume. VACUETTE® URI-PLUS has an integrated transfer device for even more hygienic sample collection, enabling safe transfer directly into a urine collection tube.

PLEASE
OBSERVE THE
INSTRUCTIONS
FOR USE
at www.gbo.com

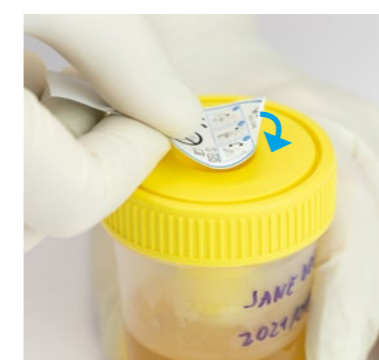
HANDLING ESSENTIALS



1

OPTIMAL SAMPLE STABILITY FOR 48 HOURS

Additive and urine sample must be mixed thoroughly. The powder additive in the VACUETTE® Urine CCM tube quickly dissolves but inverting the tube gently at least 5 times to ensure it is well mixed helps keep the sample stable for up to 48 hours.



2

PREVENT NEEDLESTICK INJURIES

By replacing the label on the lid of the Urine Cup with Integrated Transfer Device, needlestick injuries can be prevented.

ADVANTAGES



IMPROVED HYGIENE

The closed system improves hygiene for laboratory and hospital workers by preventing risk of sample contact.



INCREASED EFFICIENCY

Collection, transportation, centrifugation (where applicable), analysis and storage, all with one single sterile vacuum tube.



COVERING ALL NEEDS

Tubes and accessories for all routine urine preanalytics are available, whether for urinalysis, culture or urine microscopy.



PREANALYTICAL STANDARDIZATION

Harmonizing collection, storage and transport conditions to enable standardized preanalytics.

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PRODUCT OVERVIEW

VACUETTE® Z Urine No Additive Tubes

Item no.	Nominal volume	Cap color	Ring color	Thread type	Tube size	Bottom shape	Label	Barcode	Qty. inner / outer
454141	3 ml	● yellow	● yellow	PREMIUM	13 x 75	round	paper	no	50 / 1,200
484533	4 ml	● yellow	● yellow	PREMIUM	13 x 75	round	paper	yes	50 / 1,200
456007	6 ml	● yellow	● yellow	PREMIUM	13 x 100	round	paper	no	50 / 1,200
476081	6 ml	● yellow	● yellow	PREMIUM	13 x 100	round	transparent	no	50 / 1,200
486027	6 ml	● yellow	● yellow	PREMIUM	13 x 100	round	paper	yes	50 / 1,200
456065	6 ml	● yellow	● yellow	non-ridged	13 x 100	round	paper	no	50 / 1,200
485523	7 ml	● yellow	● yellow	non-ridged	16 x 100	round	paper	yes	50 / 1,200
455227	7 ml	● yellow	● yellow	non-ridged	16 x 100	round	paper	no	50 / 1,200
455225	8 ml	● yellow	● black	non-ridged	16 x 100	round	paper	no	50 / 1,200
455028	9 ml	● yellow	● yellow	non-ridged	16 x 100	conical	paper	no	50 / 1,200
485507	9 ml	● yellow	● yellow	non-ridged	16 x 100	conical	paper	yes	50 / 1,200
495028	9 ml	● yellow	● yellow	non-ridged	16 x 100	conical	BiBarcode (paper)	yes	50 / 1,200
485510	10 ml	● yellow	● yellow	non-ridged	16 x 100	round	paper	yes	50 / 1,200
455007	10 ml	● yellow	● yellow	non-ridged	16 x 100	round	paper	no	50 / 1,200
495007	10 ml	● yellow	● yellow	non-ridged	16 x 100	round	BiBarcode (paper)	yes	50 / 1,200

VACUETTE® Urine CCM Tubes

Item no.	Nominal volume	Cap color	Ring color	Thread type	Tube size	Bottom shape	Label	Barcode	Qty. inner / outer
454486	4 ml	● yellow	● black	non-ridged	13 x 75	round	paper	no	50 / 1,200
484532	4 ml	● yellow	● black	non-ridged	13 x 75	round	paper	yes	50 / 1,200
456284	6 ml	● yellow	● black	non-ridged	13 x 100	round	paper	no	50 / 1,200
496510	6 ml	● yellow	● black	non-ridged	13 x 100	round	BiBarcode (paper)	yes	50 / 1,200
455243	9 ml	● yellow	● black	non-ridged	16 x 100	conical	paper	no	50 / 1,200
455052	10 ml	● yellow	● black	non-ridged	16 x 100	round	paper	no	50 / 1,200
485511	10 ml	● yellow	● black	non-ridged	16 x 100	round	paper	yes	50 / 1,200

Urine Transfer Devices

Item no.	Description	Qty. inner / outer
450251	short	50 / 600
450252	long	50 / 600
450253V1	short, single-packed, sterile	- /400

Urine Cups

Cap design: screw cap with integrated transfer device

Item no.	Description	Cap color	Qty. inner / outer
724321	100 ml, bulk-packed, sterile	● yellow	- /300
724322	100 ml, bulk-packed, non-sterile	● yellow	- /300
724325	100 ml, 10 pcs./bag, sterile	● yellow	10 /250

24h Urine Containers

Graduation: yes

Item no.	Description	Product color	Cap color	Cap design	Qty. inner / outer
724315	24h urine container	● brown	○ white	screw cap	- /34
724316	VACUETTE® URI-PLUS	● brown	● blue	screw cap with integrated transfer device	- /36

Urine No Additive Sets

single-packed

Item No.	Description	Tube(s)	Additional component	Inner / Outer [Qty.]
453070	Z Urine No Additive Tube with Transfer Device	VACUETTE® Z Urine No Additive Tube, 9 ml, 16x100, Conical Base (455028)	Urine Transfer Device, short (450751)	1 / 300

Urine CCM Sets

single-packed

Item No.	Description	Tube(s)	Additional component	Inner / Outer [Qty.]
483070	Urine CCM Tube with Transfer Device	VACUETTE® Urine CCM Tube, 10 ml, 16x100, Round Base, barcode label (485511)	Urine Transfer Device, short (450751)	1 / 300
453031	Urine CCM Tube with Transfer Device	VACUETTE® Urine CCM Tube, 4 ml, 13x75, Round Base (454486)	Urine Transfer Device, short (450751)	1 / 300
453032	Urine CCM Tube with Transfer Device	VACUETTE® Urine CCM Tube, 9 ml, 16x100, Conical Base (455243)	Urine Transfer Device, short (450751)	1 / 300
453034	Urine CCM Tube with Transfer Device	VACUETTE® Urine CCM Tube, 10 ml, 16x100, Round Base (455052)	Urine Transfer Device, short (450751)	1 / 300

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2. CLSI. Processes for the Collection of Urine Specimens. 1st ed. CLSI guideline PRE05. Clinical and Laboratory Standards Institute, 2024.
3. VACUETTE® Preanalytics Manual p.49-53 Greiner Bio-One 2015

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LOCAL PARTNER ON OUR WEBSITE.



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