



Urea T

M391

0.2 - 5 mg/L Urea<sup>1)</sup>

Ur2

Indophenol / Urease

## Instrument specific information

The test can be performed on the following devices. In addition, the required cuvette and the absorption range of the photometer are indicated.

Instrument Type	Cuvette	$\lambda$	Measuring Range
MD 100	ø 24 mm	610 nm	0.2 - 5 mg/L Urea <sup>1)</sup>

## Material

Required material (partly optional):

Reagents	Packaging Unit	Part Number
UREA Reagent 1	15 mL	459300
UREA Reagent 2	10 mL	459400
Ammonia No. 1	Tablet / 100	512580BT
Ammonia No. 1	Tablet / 250	512581BT
Ammonia No. 2	Tablet / 100	512590BT
Ammonia No. 2	Tablet / 250	512591BT
Set Ammonia No. 1/No. 2 100 Pc.#	100 each	517611BT
Set Ammonia No. 1/No. 2 250 Pc.#	250 each	517612BT
Ammonia Conditioning Powder	Powder / 26 g	460170
Urea Pretreat (compensates for the interference of free Chlorine up to 2 mg/l)	Tablet / 100	516110BT
UREA Reagent Set	1 Set	517800BT

## Application List

- Pool Water Control

## Preparation

1. With the analysis of sea water samples, before the addition of Ammonia No. 1 Tablet, two scoops of ammonium conditioning powder must be added to the sample and dissolved by swirling.

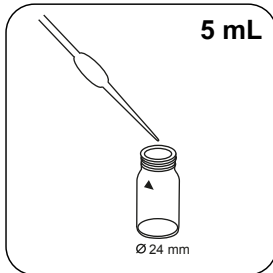




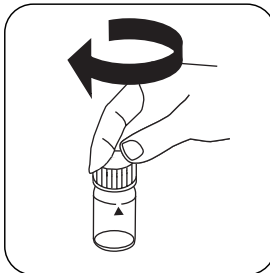
## Determination of Urea with Tablet and Liquid Reagent

Select the method on the device.

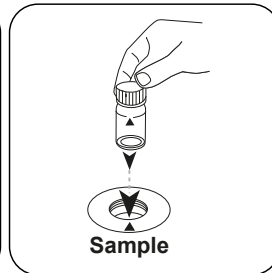
For this method, a ZERO measurement does not have to be carried out every time on the following devices: XD 7000, XD 7500



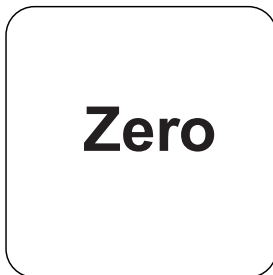
Put **5 mL sample** and **5 mL of deionised water** in the sample vessel.



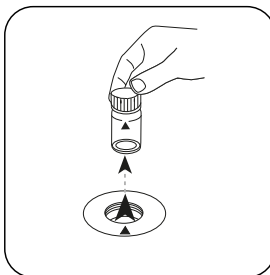
Close vial(s).



Place **sample vial** in the sample chamber. Pay attention to the positioning.

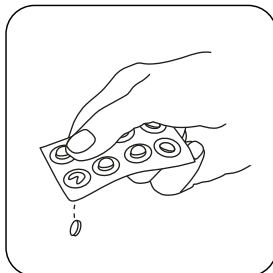


Press the **ZERO** button.

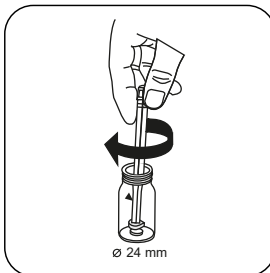


Remove the vial from the sample chamber.

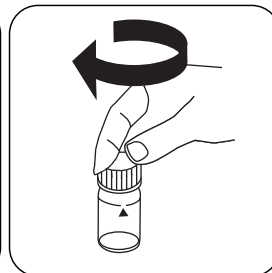
For devices that require **no ZERO measurement**, start here.



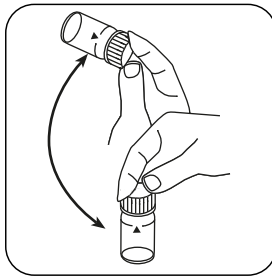
If free chlorine (HOCl) is present, add a **UREA PRETREAT** tablet.



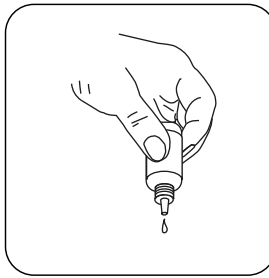
Crush tablet(s) by rotating slightly.



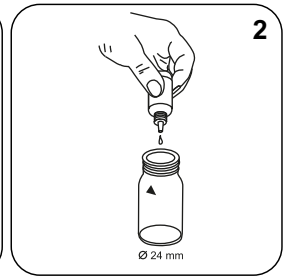
Close vial(s).



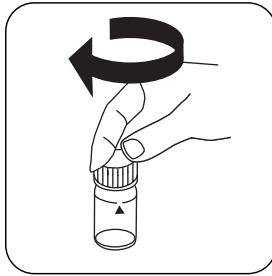
Dissolve tablet(s) by inverting.



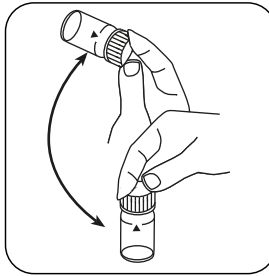
Hold cuvettes vertically and add equal drops by pressing slowly.



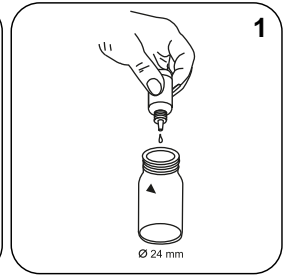
Add **2 drops UREA Reagent 1.**



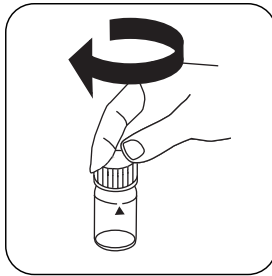
Close vial(s).



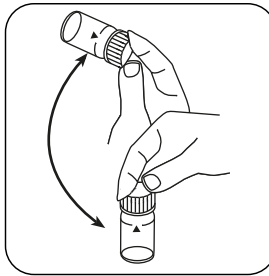
Invert several times to mix the contents.



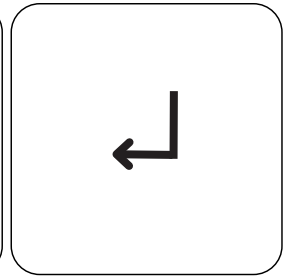
Add **1 drops UREA Reagent 2.**



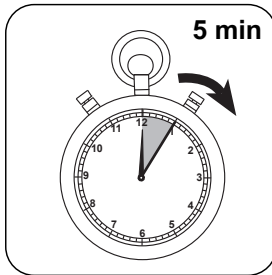
Close vial(s).



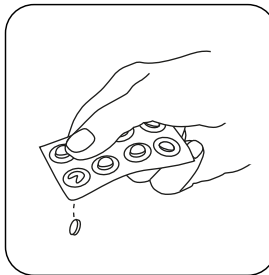
Invert several times to mix the contents.



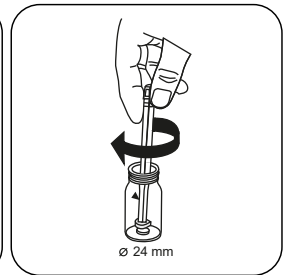
Press the **ENTER** button.



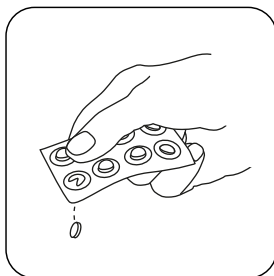
Wait for **5 minute(s) reaction time.**



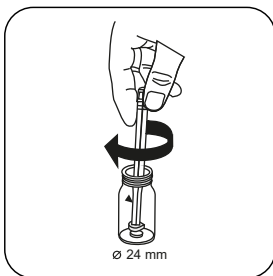
Add **AMMONIA No. 1 tablet .**



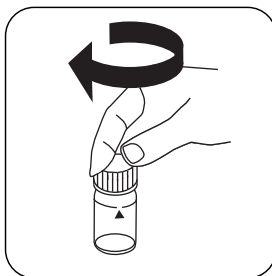
Crush tablet(s) by rotating slightly.



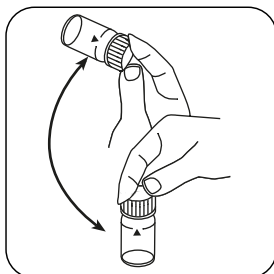
Add **AMMONIA No. 2** tablet .



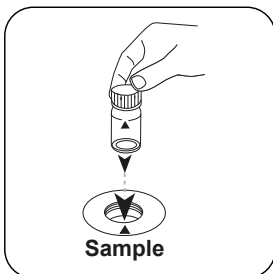
Crush tablet(s) by rotating slightly.



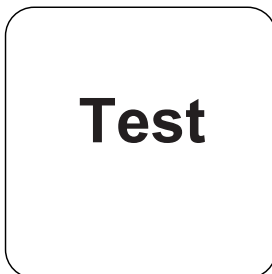
Close vial(s).



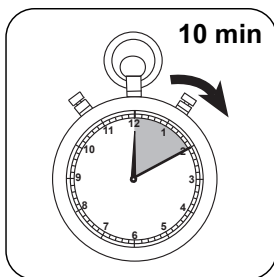
Dissolve tablet(s) by inverting.



Place **sample vial** in the sample chamber. Pay attention to the positioning.



Press the **TEST** (XD: **START**) button.



Wait for **10 minute(s)** reaction time.

Once the reaction period is finished, the measurement takes place automatically.

The result in mg/L Urea appears on the display.



## Chemical Method

Indophenol / Urease

<sup>9</sup> high range by dilution | \* including stirring rod, 10 cm