

**CyA HR T****M161****10 - 200 mg/L CyA****CyAH****Melamine**

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	λ	Measuring Range
MD 600, MD 610, MD 640, MultiDirect, PM 620, PM 630, SpectroDirect, XD 7000, XD 7500	ø 24 mm	530 nm	10 - 200 mg/L CyA

Material

Required material (partly optional):

Reagents	Packaging Unit	Part Number
CyA HR-Test	Tablet / 100	511430BT
CyA HR-Test	Tablet / 250	511431BT

Application List

- Pool Water Control

Notes

1. Cyanuric acid causes an extremely fine distributed turbidity with a milky appearance. Individual particles are not attributable to the presence of cyanuric acid.
2. After addition of the CyA-HR-Test tablet, it dissolves automatically within two minutes.





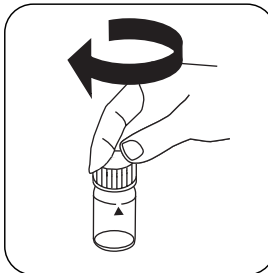
Determination of Cyanuric Acid Test with Tablet

Select the method on the device.

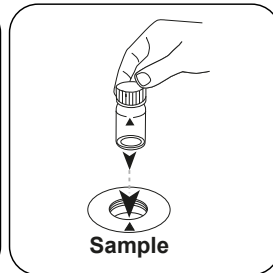
For this method, a ZERO measurement does not have to be carried out every time on the following devices: XD 7000, XD 7500



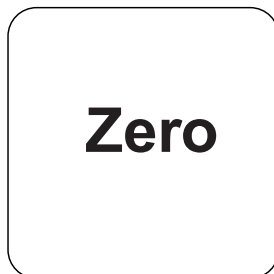
Fill 24 mm vial with **10 mL sample**.



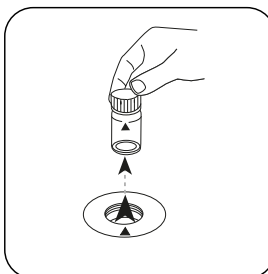
Close vial(s).



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

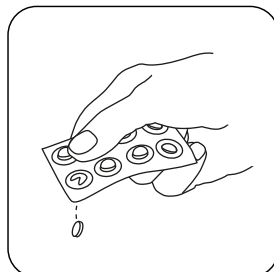


Press the **ZERO** button.

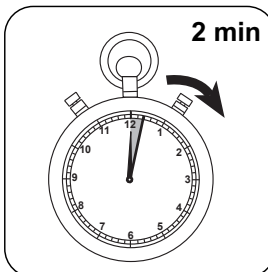


Remove the vial from the sample chamber.

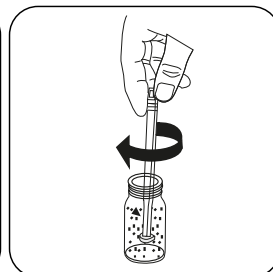
For devices that require **no ZERO measurement**, start here.



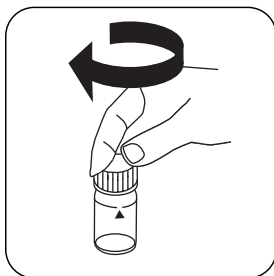
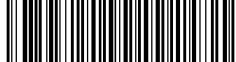
Add **CyA HR Test tablet**.



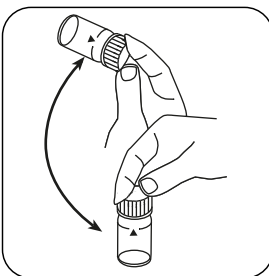
Wait for **2 minute(s) reaction time**.



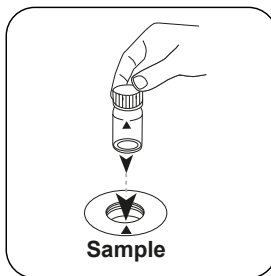
Dissolve the tablets using a clean stirring rod.



Close vial(s).



Invert several times to mix the contents (do not shake).



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

Test

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

The result in mg/L Cyanuric Acid appears on the display.



Chemical Method

Melamine

Calibration function for 3rd-party photometers

$$\text{Conc.} = a + b \cdot \text{Abs} + c \cdot \text{Abs}^2 + d \cdot \text{Abs}^3 + e \cdot \text{Abs}^4 + f \cdot \text{Abs}^5$$

	ø 24 mm	□ 10 mm
a	$-8.76932 \cdot 10^{-2}$	$-8.76932 \cdot 10^{-2}$
b	$2.30609 \cdot 10^{+1}$	$4.95809 \cdot 10^{+1}$
c	$3.4216 \cdot 10^{+1}$	$1.58163 \cdot 10^{+2}$
d	$-5.87057 \cdot 10^{+1}$	$-5.83439 \cdot 10^{+2}$
e	$4.87923 \cdot 10^{+1}$	$1.04257 \cdot 10^{+3}$
f	$6.46693 \cdot 10^{+0}$	$2.97092 \cdot 10^{+2}$

Interferences

Persistent Interferences

1. Undissolved particles may lead to higher results.

Method Validation

Limit of Detection	2.07 mg/L
Limit of Quantification	6.2 mg/L
End of Measuring Range	200 mg/L
Sensitivity	77.47 mg/L / Abs
Confidence Intervall	4.6 mg/L
Standard Deviation	4.78 mg/L
Variation Coefficient	4.55 %