

Uranalyze® Uranium test strips 0-100 mg/L

1. Pack content

1 aluminium container with 100 test strips

2. Measuring range

Measuring range	Color scale graduation	Number of tests
0 – 100 mg/L de UO_2^{2+}	0 – 10 – 25 – 50 – 75 – 100 mg/L de UO_2^{2+}	100

3. Applications

Fields use for uranyl ion (UO_2^{2+}) dosage:

- Mining
- Mineralized samples (sediments, rocks...)
- Laboratory

4. Influence of foreign substances

This was checked in solutions with 40 and 0 mg/L of uranyl ions. The following ions interfere with the result when the concentrations below are exceeded (see Table).

Concentrations of foreign substances in mg/L					
Acetate	1000	CN ⁻	500	Na ⁺	1000
As	1000	Co ²⁺	1000	NH ₄ ⁺	1000
Ag ⁺	1000	Cr ³⁺	1000	Ni ²⁺	1000
Al ³⁺	1000	CrO ₄ ²⁻	200*	NO ₂ ⁻	1000
Au ³⁺	1000	Cu ²⁺	1000	NO ₃ ⁻	1000
Ba ²⁺	1000	Fe ²⁺	5*	Pb ²⁺	50
Ca ²⁺	1000	Fe ³⁺	2.5*	PO ₄ ³⁻	1000
Cd ²⁺	1000	Hg ⁺	1000	SO ₃ ²⁻	1000
Ce ³⁺	5	K ⁺	1000	SO ₄ ²⁻	1000
Citrate	1000	Mn ²⁺	1000	Zn ²⁺	1000
Cl ⁻	1000	Mg ²⁺	1000		

* CrO₄²⁻, iron (II) and iron (III) ions do not interfere with addition of 100 mg U-react powder (sample volume = 5 mL)

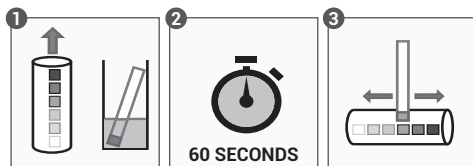
5. Sample preparation

Samples containing more than 100 mg/L of UO_2^{2+} must be diluted with nitric acid 1% solution.

The pH must be less than 1.5.

6. Instructions for use

- 1 Dip the test strip into the test sample.
- 2 Wait 60 seconds.
- 3 After immediate reading, compare the test field with the colorimetric scale.



Read off the corresponding result in mg/L of UO_2^{2+} .

Indications for strip use:

If there is a likelihood of CrO₄²⁻, iron (II) or iron (III), consider the following procedure:

- add 1 dose (100 mg) of U-react powder to the sample (5 mL) with the measuring spoon
- shake until all of the powder is dissolved
- proceed as described above (dip the test strip for 60 seconds in the sample and take an immediate reading)

Indications on the strip reading: The color of the strip may continue to change after the specified reaction time has elapsed. This must not be considered in the result.

7. Storage

Avoid exposing the strips to sunlight and moisture. Store firmly closed in cool and dry place between +15 °C and +25 °C.

After opening, it is preferable to use the test strips within six months.

8. General indications

Remove only as many test strips as are required. Reclose the tube containing the test strips immediately after use. Do not touch the test field.

Additional information: The tube cap contains a non-toxic drying agent. If swallowed, drink plenty of water.

REF	Item Number / Номер продукта	LOT	Batch identification / Номер серии
	Use by / Использовать до		Store in a dry place / Хранить в сухом месте
	Recommended temperature storage limits / Рекомендованный температурный режим		Please read instructions for use / Соблюдать инструкции по применению
	Contains sufficient for <n> tests / Достаточное содержание для <n> тестов		Only disposable / для одноразового использования