

### Description:

DiaQuant® Water Hardness are test strips for the semi-quantitative analysis of low water hardness, after amongst other things the softening of water that is used, for example, to feed the reverse osmosis unit when preparing dialysis liquid. Water hardness means the content of calcium and magnesium ions in the water, which is expressed in ppm (mg/L) calcium carbonate (CaCO<sub>3</sub>) or in °d (degree German hardness) or °f (degree French hardness) (conversion factor: 1 °d = 1.8 °f = 17.8 ppm CaCO<sub>3</sub>).

### Measuring range:

5–20 ppm CaCO<sub>3</sub> (0.3–1.1 °d or 0.54–2 °f)

### Color gradation:

0 • 5 • 10 • 20 ppm CaCO<sub>3</sub> (0 • 0.3 • 0.6 • 1.1 °d or 0 • 0.54 • 1.1 • 2 °f)

### Pack content:

100 test strips

### Reaction principle:

Determining the water hardness is based on the complexing reaction between calcium and magnesium ions and ethylenediaminetetraacetic acid (EDTA) disodium salt.

### General information:

Only remove the required number of test strips from the container and then immediately close the container again securely. Do not touch the test field. Ideally, the color evaluation should be carried out by diffuse daylight. Artificial light can lead to difficulties or an incorrect color reading.

### Instructions for use:

1. Insert the test strip into the test solution for 5 s.
2. **Gently** shake off any excess liquid.
3. Wait for 15 s.
4. Compare with the color scale and take the value which matches closest with the colored test field (reading accuracy: ± 2 ppm).

The reaction color of the test field may change after the value has been taken. It is therefore crucial to assess the color within the prescribed timescale in order to achieve correct results.

### Quality control:

To check the correct functioning of the test strips, use untreated tap water with a hardness degree of > 1 °d (17.8 ppm CaCO<sub>3</sub>). The exact quantitative analysis may be carried out with a titration test kit (e. g. VISOCOLOR® HE total hardness H<sub>2</sub>, REF 915 002). To carry out the positive control, prepare a test solution of 0.6 °d (10 ppm CaCO<sub>3</sub>) by thinning tap water with totally softened water. Then use the test strip to measure. If the control solution produces a negative result even after repeating the process, then the remaining unused test strips must be discarded. Even during a negative control (inserting a test strip into totally softened water), no positive coloration may occur. Possible reasons for both faults may be that the use-by-date has been exceeded, the test strip container was left open for too long or the test strips were stored incorrectly.

### Interferences:

The test will not be adversely affected by the presence of up to 50 mg/L chlorine or alternatively 500 mg/L hydrogen peroxide. DiaQuant Water Hardness may be used to determine the hardness of drinking water. In other solutions, however, inaccurate results may occur. Water that is to be tested should be at room temperature.

### Storage:

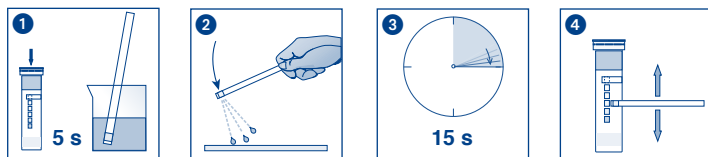
Avoid exposing test strips to moisture or direct sunlight. Keep test strip container cool and dry (storage temperature between 4 °C and 30 °C). If stored correctly, the test strips may be used until the use-by-date printed on the packaging.

### Additional information:

The test strip container stopper contains a non-toxic drying agent. If swallowed, drink plenty of water.

### Disposal:

Dispose of used test strips as domestic waste.



Diese Teststreifen entsprechen der Richtlinie für Medizinprodukte 93/42/EWG / These test strips conform to the Medical Device Directive 93/42/EEC. / Ces languettes test sont conformes à la directive 93/42/CEE relative aux dispositifs médicaux / Tiras reactivas fabricadas en conformidad con la directiva de productos sanitarios 93/42/CEE. / Deze teststrips voldoen aan de richtlijn voor medische producten 93/42/EEG. / Le presenti strisce reattive sono conformi alla direttiva 93/42/CEE sui dispositivi medici. / Te paski testowe są zgodne z dyrektywą dla wyrobów medycznych 93/42/EWG.	
Nicht wiederverwenden / Do not reuse / Ne pas réutiliser / Producto de un solo uso / Niet hergebruiken / Non riutilizzare / Nie używać ponownie	Hersteller / Manufacturer / Fabricant / Fabricante / Fabrikant / Fabricante / Producent
Artikelnummer / Item number / Référence produit / Referencia / Artikelnummer / Numero di catalogo / Numer artykułu	Chargencode / Batch identification / Numéro de lot / Código de lote / Productienummer / Codice del lotto / Numer partii
Achtung! / Warning! / Attention! / ¡Atención! / Let op! / Attenzione! / Uwaga!	Verwendbar bis / Use by / À utiliser avant / Fecha de caducidad / Te gebruiken tot / Utilizzare entro (anno / mese) / Przydatność do użycia
Temperaturbegrenzung / Permitted storage temperature range / Limites de température / Limites de temperatura / Temperaturbegrenzung / Limite de temperatura / Ograniczenie temperatury	Trocken aufbewahren / Store in a dry place / Conserver au sec / Mantener seco / Op een droge plaats bewaren / Mantener asciutto / Przechowywać w suchym miejscu
Gebrauchsanweisung beachten / Please read instructions for use / Respecter les instructions d'utilisation / Observense las instrucciones de uso / Lees de bijsluiting / Consultare le istruzioni per l'uso / Przestrzegać instrukcję użycia	Packung geschlossen halten / Keep container closed / Refermer la boîte / Mantenga el envase cerrado / Verpakking gesloten houden / Conservare la confezione chiusa / Przechowywać pojemnik szczelnie zamknięty
Ausreichend für <n> Prüfungen / Contains sufficient for <n> tests / Contenu suffisant pour <n> tests / Contenido suficiente para <n> tests / Voldoende voor <n> tests / Contenuto sufficiente per <n> test / Wystarczająco dla kontroli <n>	

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