

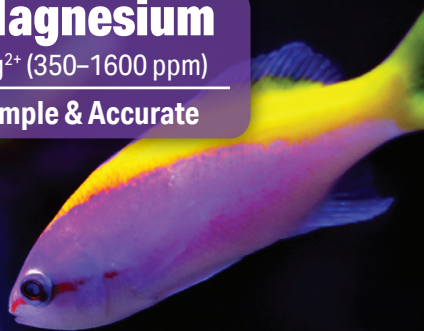


**taylor**<sup>®</sup>  
aquarium

## Magnesium

Mg<sup>2+</sup> (350–1600 ppm)

Simple & Accurate



# K-4105

60+  
tests

**Magnesium** – Magnesium (Mg<sup>2+</sup>) is needed for corals and plants to grow and stay healthy. For corals, magnesium is needed in their skeletal structure. For plants, magnesium is used to produce energy from light in chlorophyll. As magnesium is used up, magnesium levels decrease, making it important to monitor the magnesium concentration in the tank. Out of range magnesium levels can cause slow growth, affect other water parameters, and possibly lead to death. For the best marine habitat, keep consistent magnesium levels through monthly testing.

### Kit Components

- R-4014 Magnesium Reagent #1
- R-4015 Magnesium Reagent #2
- R-4016 Magnesium Reagent #3
- 4035 Test Tube
- 6250 Syringe
- 6253 Syringe Tip
- 5268 Instruction
- 5641 Conversion Chart - Magnesium



To order replacement parts and reagents; Call toll-free  
**800-TEST KIT (800-837-8548)** or Visit  
[www.TaylorAquarium.com](http://www.TaylorAquarium.com)

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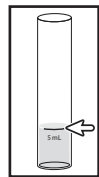
# Magnesium

## Mg<sup>2+</sup> (350-1600ppm)

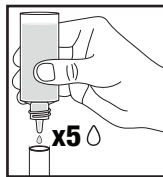
### Procedure

*Keep Reagents Away From Children. Do not put reagents or samples into aquarium.*

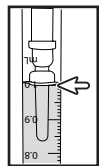
### Magnesium Test



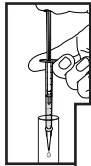
1. Add 5 mL of sample water to a clean test tube (#4035).



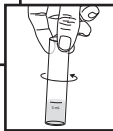
2. Add 5 drops of R-4014 Magnesium Reagent #1. Hold dropper bottle vertically when dispensing the reagent.



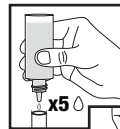
5. Use the 1 mL syringe to draw up R-4016 Magnesium Reagent #3 until the seal of the plunger reaches the 1 mL line, keeping the tip submerged the entire time.



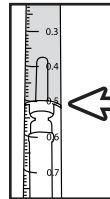
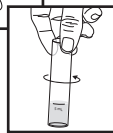
6. Slowly dispense dropwise into the test tube, swirling between drops and looking for a complete color change from red to blue. Only 1-2 more drops should be needed for the blue color to appear once the purple color forms.



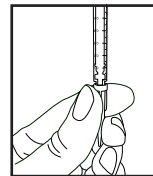
**NOTE:** If the Magnesium concentration is roughly known, add 75% of the needed Magnesium Reagent #3 all together and swirl. Then continue dropwise addition.



3. Shake R-4015 Magnesium Reagent #2 for 5 seconds. Add 5 drops to the sample water. Swirl for 10 seconds. **A red color will appear if the sample contains over 350 ppm Mg<sup>2+</sup>.**



7. Compare the volume remaining in syringe at the seal of the plunger to Magnesium Conversion Chart.



4. Firmly attach the syringe tip (#6253) to the 1 mL syringe (#6250).

### Recommendations

Magnesium is recommended for reef and marine aquariums to be between 1200-1500 ppm Mg<sup>2+</sup>. Lower magnesium levels will slow growth of corals and reefs. Lower magnesium levels can also cause lime to build and cloud the water. Perform a water change to prevent magnesium levels getting too high or too low. Replace water with fresh salt water that contains magnesium. This will help to maintain a steady and optimal magnesium level.