

Description

Semi-quantitative enzymatic colorimetric test strips for the direct determination of oxalate in serum, plasma and treated urine samples using a visual colour-chart comparison.

Specifications

Detection Method	Enzymatic colorimetric test strip (enzymatic oxidation of oxalate coupled with a colour reaction; visual colour chart comparison)
Sample Type	Serum, Plasma, Urine
Species Reactivity	All
Assay Time	5 minutes colour development
Kit Size	10 strips
Equipment Required	Test strip (visual colour chart comparison)
Storage	Refrigerator (4°C)
Shelf Life	6 months
Shipping	Room Temperature

Kit Components

Component	Quantity	Storage
Test Strips	10	Refrigerator (4°C)
Instruction Manual	1	Room temperature

Ordering Information

Assay Genie Cat. No.	Pack Size
BA0264	10 strips

Assay Procedure

Note: This is a sample protocol. Protocols are batch/lot specific - always follow the instructions supplied with your kit.

1. Sample preparation: whole blood samples are not compatible with the strips; most serum and plasma samples can be tested undiluted with no preparation. Urine samples require special treatment (see below).
2. Urine treatment: add 240 µL of urine and 10 µL 0.5 M EDTA to a tube containing 50 mg carbon powder.
3. Place the tube on a shaker for 5 minutes (or shake by hand if a shaker is unavailable).
4. Carefully add the sample to a 5 kDa cutoff filter and centrifuge for 2 minutes, reserving the effluent for testing. Alternatively, centrifuge the tube for 10 minutes, transfer the supernatant to a clean tube, centrifuge again for 5 minutes and reserve the supernatant.
5. Test procedure: carefully add 10 µL of sample directly to the strip reaction pad.
6. Let colour develop on the strip for 5 minutes.
7. Compare the colour of the reaction pad to the Oxalate Chart shown on the test strip bag; if the sample was diluted, multiply the chart concentration by the dilution used (e.g. 1.04 for urine) to determine the oxalate concentration in the sample.

Calculation

Oxalate concentration = concentration read from the Oxalate Chart × dilution factor used (e.g. 1.04 for treated urine samples).

Notes

- Whole blood samples are not compatible with the strips.
- For research use only; never use for health-related decisions.
- Store the strips refrigerated at 4°C.
- Reagents are for research use only. Refer to the MSDS for detailed safety information.

Assay Genie | sales@assaygenie.com | www.assaygenie.com

Technical specifications are based on manufacturer documentation and may be updated. Protocols shown are summaries - always follow the instructions supplied with your kit/lot.