

CD Boron Assay Kit

Catalog Number: AKBA559

Size: 100 tests

Price: [Online Inquiry](#)



Product Information

Product Name	CD Boron Assay Kit
Applications	For quantitative determination of boron in agricultural and environmental samples.
Features	Fast and sensitive. Linear detection range: 0.05 to 10 $\mu\text{g/mL}$ (0.05 – 10 ppm) boron with 100 μL sample (96-well). Convenient. The procedure involves adding a single working reagent. High-throughput. “Add-mix-read” type assay. Can be readily automated as a high-throughput 96-well or 384-well plate assay for thousands of samples per day.
Detection Method	OD420nm
Sample Type	Water, plant tissue, soil samples, and antibody conjugation solutions
Species	All
Assay Time	40 min
Limit of Detection	0.05 $\mu\text{g/mL}$ or 0.05 ppm
Expiration Date	12 months
Description	BORON is an essential micronutrient in plants and is involved in maintaining robust cell walls, cell membranes, and reproductive tissues. Although boron is common in the soil in its natural state as a borate mineral, the amount of boron available to plants is actually quite small. As a result, boron deficiency is the second most common micronutrient deficiency among crop plants. In order to keep plant boron levels in a healthy range, supplementation to the soil via fertilizers and additives is often required. If not regulated, a lack of or excess of boron may significantly lower crop yield. In the biotech industry, sodium borohydride is commonly used to conjugate antibodies and typically needs to be removed from the final product, especially for therapeutic antibodies. BioAssay Systems' boron detection kit provides a convenient and reliable means to measure boron. In the assay borate complexes with azomethine-H to create a colored compound that can be measured at 420 nm. This assay can be used with a variety of samples and is simple, sensitive, and adaptable to high-throughput screening.
Shipping Conditions	Shipping: RT
Storage	Storage: 4°C upon receipt