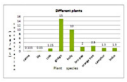
Agrisera
Part of Thermo Fisher Scientific

This product is **for research use only** (not for diagnostic or therapeutic use) **contact: support@agrisera.com**

Agrisera AB | Box 57 | SE-91121 Vännäs | Sweden | +46 (0)935 33 000 | www.agrisera.com

ABA | Abscisic acid ELISA quantitation trial kit (24T)



Qty: AS20 4392-24

AS20 4392-24 | Reactivity: **ABA hormone - trial kit**

Price: 317 €

Background: This ELISA assay utilise the principle of competitive binding to measure the concentration of hormone in plant extracts. The ABA (abscisic acid) hormone has been pre-coated on the surface of the reaction wells. The plant extract sample, containing an unknown amount of hormone, or standards are mixed in the reaction well with a known amount of antibody to ABA. During incubation the competitive inhibition reaction occrus between pre-coated ABA and hormone in the samples with the antibody specific to ABA.
Unbound hormone and plant extract are washed out of the reaction wells. Addition of HRP-conjugated goat anti-rabbit IgG antibody will visualize binding between anti-ABA antibodies and ABA hormone. Substrate solution is added to the wells and the color develops in opposite to the amount of ABA in the sample or standards. Reaction is stopped and the intesity of the color is measured at 450 nm.

Reaction wells: 24 wells

Assay development time: 1-2 hours

Sensitivity: 0.04 µg/ml

Detection ragne: 0.156 µg/ml-10 µg/ml

Plant extract volume: 50-100 µl

Detection wavelength: 450 nm

Intra-assay precision (within an assay)**:** CV%<10%

Intra-assay precision (between assays)**:** CV%<20%

Expiry date: 6 months from purchase

Storage: 2-8°C

Note: All components of the kit, except for wash buffer/TMB substrate/Stop solution, contain ProClin 300 (non toxic antimicrobial preservative) in concentration 1:3000.

Reference: Cassani et al. (2024). Drought- and Salt-Tolerant Populations of the Xero-Halophyte Mediterranean Shrub Atriplex halimus L. Exhibit Contrasting Proline and Glycinebetaine Metabolism. J Plant Growth Regul (2024). https://doi.org/10.1007/s00344-024-11558-7**.**

Manual in Pdf

Cross-reactivity to other plant hormones

Compound | Cross-reactivity (%)

Gibberelin: < 0.01 %

Indoleacetic acid: < 0.01 %

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Sample type (used so far): Fresh, frozen or lyophilized, xylem sap or crude extracts
Cinnamomum camphora, *Cannna*, *Brassica* sp., *Brassica napus*, *Citrus × Sinensis*, *Ginkgo biloba*