

## METHOD FOR DETERMINING THE STATE OF ECOCENOSIS, INTRODUCED, AND AGRICULTURAL PLANTS

### Areas of Application

Determining the state of ecocenosis plants under unfavorable impacts; ecological monitoring (bioindication) of environment; searching plant test objects for environment bioindication; determining the state of introduced plants; testing new varieties of agricultural plants for genetic and breeding purposes

### Specification

The content of protein biomarker in the plant sample (leaves) as measured by the immune-detection method is used as a biological indicator of the plant physiological state. Monoclonal antibodies, which are specific to the biomarker of a wide range of organisms including the plants, are used for immune-detection

### Advantages

There are no absolute counterparts. The method gives an integral indicator of the plant state in unfavorable environment, it is suitable for testing of different plant species and early diagnostics of plant stress before appearance of negative symptoms (shape and color changes, retardation in growth and development, acceleration of aging)

### Stage of Development. Suggestions for Commercialization

IRL3, TRL3  
Recommendations and training are provided upon request

### IPR Protection

IPR1, IPR2

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