

GMO testing services

Amar Immunodiagnosics Pvt Ltd provides following services to seed companies and exporters. The company works with most of the Indian and multinational companies in India providing these services in a timely manner. Amar Immunodiagnosics reports are considered Gold standard by most of the stakeholders.

1. Seed lot purity for GMO trait:

Amar Immunodiagnosics does individual seed testing to check for presence of desired BT trait in individual seed. Ninety four individual seeds are tested and the report is submitted as percentage of seeds positive for the desired trait.

2. Individual leaf testing:

In a back cross program, it is necessary to check for the desired BT trait to determine the presence or absence of BT gene.

The company will do the trait specific testing and provide report as positive or negative leaf sample

3. Event selection:

In order to select an event which yields high level of trait specific protein in different plant tissues at different age in life of the plant, the company does quantitative ELISA test to help seed company select the best event.

The results are reported as the amount of trait specific protein per gram of fresh tissue (ng/gm). Total soluble protein testing is also done and results can be provided as percentage of trait specific protein in total soluble protein.

If needed, results can also be provided on dry leaf weight basis instead of fresh leaf weight. Different parts of the plant can be tested to provide variation in protein level between different tissues (Leaf, Roots, Stem, Culm, Pollen)

4. Adventitious presence (Bulk grain testing):

In order to detect presence of GMO seeds in non-GMO shipment, Amar Immunodiagnosics will do bulk grain testing and report whether percentage of GMO seeds in the sample is below 0.1%, 0.5% or 0.9 %.

5. Quantitative testing for trait specific protein:

We will do the quantitative estimation of trait specific protein in different plant tissue for regulatory purpose. Please enquire for more details.

