



incotec

the seed enhancement company

Part of Croda International Plc

Precast ultra-thin layer IEF gel

using a protein platform in your own lab



Ultra-thin-layer isoelectric focussing (UTLIEF) gel electrophoresis is a very powerful technology that can support a breeding company or seed production facility in many different ways. A protein platform is probably the fastest and most cost-effective way to determine the quality of hybrid seed production. The homogeneity of parental lines can also be monitored and where necessary improved, and there are more applications to support your breeding programs.

Incotec's Analytical Services is a full-service laboratory that is able to support you each step of the way allowing you to do your molecular testing in-house.



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Expertise

Very few companies have the expertise to consistently produce high-quality gels for in-house use. They often lack the required time or know-how to identify the right molecular markers and optimize electrophoresis conditions for their different crops and varieties. This is unfortunate, since protein electrophoresis can be an extremely efficient and cost-effective tool for high-throughput quality control and breeding assistance.

Advanced protein based platform

Our advanced protein gels technology enables you to carry out quality control of your hybrids and parental lines, and support your breeding program. Our gels have a capacity of 96-288 samples per run, making them highly cost- and time-efficient.

When you use our gels, we will assist you in identifying the optimal extraction method, the best suited gel-type and staining method, and provide you with protocols tailored to suit your specific needs, crops and varieties. We aim to do all analyses on seed, which eliminates the need to produce seedlings and therefore contributes to the speed and number of samples that can be analyzed per day. If required, we can train your staff at your facility and remain at your assistance in the future.

The gel depicted on the right shows an example of what can be achieved when using our gels. They can be used for vegetables as well as field crops, and for all kinds of quality control and breeding support. Our gels are best in offering sharp separations of protein bands and with highest clear resolutions resulting in easy reading of gels with higher level of reliability. Our gels are having following key unique features.

- One of the thinnest in the world
- Sharp separating capability
- High resolutions
- Highest capacity in samples per run
- Efficient running time
- Good shelf life
- Possibilities for tailor made pre-cast gel design
- Cost effective solution to your need

