

## sbeadex plant kit

### Customised kit solutions for pure plant DNA preparations

Successful DNA analysis requires reliable and high quality sample preparations. Plant material is always a challenge because it contains different types of potential PCR inhibitors e.g. polysaccharides or polyphenols.

#### sbeadex plant kit

LGC is an international supplier of tailor-made kit systems primarily for automated high-throughput DNA extractions. The sbeadex™ plant kit has been developed for flexible and reliable DNA extractions from plant leaves, roots and other plant material.

#### The sbeadex plant kit solution

- Development of customised protocols
- Suitable for a wide range of sample materials: lysis conditions can be tailored to specific requirements
- Volumes of kit components are highly flexible
- Quicker results - speed of extraction can be optimised
- Highly flexible batch size
- Compatible with most popular robotic platforms.



## DNA preparation protocol

sbeadex kits use magnetic separation for the preparation of nucleic acids. Superparamagnetic particles coated with sbeadex surface chemistry are used to capture nucleic acids from a sample. sbeadex utilises a novel two-step binding mechanism which combined with the washing steps removes impurities present in the sample matrix. After washing, the nucleic acid is eluted and is ready for use in the downstream processes.



### Application areas

Extraction protocols have been created for plant material incl. bark, pulp and root. LGC offers pilot studies in case of non-tested plant materials.

Additional plants:

- Cotton
- Chicory
- Grapevine
- Hops
- Lettuce
- Onion
- Pepper
- Barley

	Flour	Leaf	Seed
Maize	✓	✓	✓
Oak		✓	
Rapeseed	✓	✓	✓
Rice	✓	✓	✓
Tomato		✓	✓
Wheat	✓	✓	✓
Potato		✓	

Table 1: Examples of sample types tested

### Advantages

- **High quality** – Consistent  $A_{260/280}$  ratio and improved  $A_{260/230}$  ratio
- **Easy to automate** – Magnetic microparticle handling offers flexibility in automated processing
- **Convenient** – All buffers are ready to use
- **Absence of PCR inhibitors** – No organic solvents or chaotropic salts in final wash buffers.

### Ordering information

Cat. No.	Kit	Starting material (fresh)	Number of tests
41601	sbeadex mini plant	20 - 30 mg	96
41610	sbeadex mini plant	20 - 30 mg	960
41602	sbeadex maxi plant	80 - 100 mg	96
41620	sbeadex maxi plant	80 - 100 mg	960

All kit components are available to purchase individually.

For more details please contact your local representative or visit our website.

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