



# sbeadex plant kit

## Customised kit solutions for pure plant DNA purifications

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

### sbeadex plant kit

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

### The sbeadex plant kit solution

- High DNA quality for all downstream applications incl NGS
- Development of customised protocols
- Lysis conditions: tailored to specific requirements of sample materials
- Highly flexible volumes of kit components and batch sizes
- Quicker results: speed of purifications can be optimised
- Compatible with most popular robotic platforms

### DNA preparation protocol

sbeadex kits use magnetic separation for the preparation of nucleic acids. Superpara-magnetic 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.



\*For research use only. Not for use in diagnostic procedures.

## Application areas

Extraction protocols have been created for plant material including leaf, seed, bark, pulp and root. Biosearch Technologies offers pilot studies in case of non-tested plant materials or species.

### Plant species with validated sbeadex purification protocols

Aphid, soybean ( <i>Aphis glycines</i> )	Cucumber ( <i>Cucumis sativus</i> )	Pigeon pea ( <i>Cajanus caja</i> )
Aubergine ( <i>Solanum melongena</i> )	Fir, Silver ( <i>Abies alba</i> )	Pine, Swiss or Arolla ( <i>Pinus cembra</i> )
Barley ( <i>Hordeum vulgare</i> )	Flax ( <i>Linum usitatissimum</i> )	Potato ( <i>Solanum tuberosum</i> )
Bean, Common ( <i>Phaseolus vulgaris</i> )	Grape ( <i>Vitis vinifera</i> )	Ragwort ( <i>Jacobaea vulgaris</i> / <i>Senecio jacobaea</i> )
Beet ( <i>Beta vulgaris</i> )	Leek ( <i>Allium Porrum</i> )	Rapeseed/Canola/Oilseed ( <i>Brassica napus</i> )
Beet, sugar ( <i>Beta vulgaris</i> )	Lettuce ( <i>Lactuca sativa</i> )	Rice, Asian ( <i>Oryza sativa</i> )
<i>Begonia conchifolia</i>	Lotus ( <i>Lotus japonicus</i> )	Rubber ( <i>Hevea brasiliensis</i> )
Cabbage ( <i>Brassica oleracea</i> )	Millet, pearl ( <i>Pennisetum glaucum</i> )	Ryegrass ( <i>Lolium perenne</i> )
Carrot ( <i>Daucus carota</i> )	Muskmelon ( <i>Cucumis melo</i> )	Soybean (U.S.) soya bean (UK) ( <i>Glycine max</i> )
Cassava ( <i>Manihot esculenta</i> )	<i>Mycosphaerella graminicola</i>	Spinach ( <i>Spinacia oleracea</i> )
Cauliflower ( <i>Brassica oleracea</i> )	Oat, Common ( <i>Avena sativa</i> )	Sunflower ( <i>Helianthus annuus</i> )
Chickpea ( <i>Cicer arietinum</i> )	Onion ( <i>Allium cepa</i> )	Switchgrass ( <i>Panicum virgatum</i> )
Chicory, Common ( <i>Cichorium intybus</i> )	Orange ( <i>Citrus sinensis</i> )	Tomato ( <i>Solanum lycopersicum</i> )
Clover, Red ( <i>Trifolium pratense</i> )	Peach ( <i>Prunus persica</i> )	Tobacco leaves ( <i>Nicotiana tabacum</i> )
Corn ( <i>Zea mays</i> )	Pepper ( <i>Capsicum annum</i> )	
Cowpea ( <i>Vigna unguiculata</i> )	Perch, Yellow ( <i>Perca flavescens</i> )	

## 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 chaotrophic 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.

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