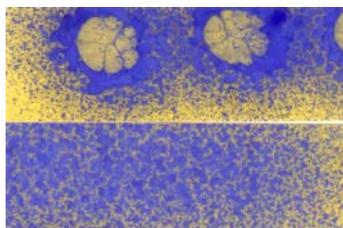


LISSY 2002 For Direct Plant and Seed Spraying



LISSY - a unique, compact, high precision, robotic liquid handling system, has now been further developed for the effortless spraying of plants and seeds in R & D. For pesticide and herbicide testing on plants or seeds, LISSY is equipped with our proprietary spraying probes, which replicate a similar and consistent spraying pattern to that used in the field.



Traditional spray probe dispense pattern

Zinsser Analytic's patented spray probe dispense pattern – consistent coverage without the presence of halos

Dispensing of H₂O onto water sensitive paper

The extreme flexibility of LISSY is the key. LISSY can accommodate different plants of different heights and sizes. LISSY can not only just spray single plants with a set pesticide or herbicide volume, but can also track spray across rows of plants or seeds on the same deck by dispensing and spraying constantly whilst moving and adjusting spraying height without user intervention. LISSY can also automatically adjust the dispensing volume of the herbicide or pesticide under test by visualising and determining the shape and size of the plants to be sprayed. Special spraying adaptors avoid cross contamination between individual plants. Multiple pesticides or herbicide can be tested within one run.

For the optimisation and development of pesticides and herbicides, the same LISSY system can also be used when equipped with solid and viscous media handling for formulation development.

LISSY is available with up to 8 liquid handling channels which can accommodate 8 spraying probes for high throughput spraying, or a combination of probes (spraying probes, standard pipetting probes, powder handling probes, disposable tip adaptors) for a versatile formulation and spraying system. A workbench of 0.9m is standard, however workbench sizes of 1.2m (XL) and 2.0m (XXL) are also available for higher capacity.