

Protocol for the artificial inoculation with *A. solani* in field trials (with infected kernels)

Birgit Adolf, Hans Hausladen

Lehrstuhl für Phytopathologie, Wissenschaftszentrum Weihenstephan, Emil-Ramann-Str. 2.  
85354 Freising, Germany

[adolf@wzw.tum.de](mailto:adolf@wzw.tum.de)

Let your *A. solani* isolates grow on V8-medium at 22°C and 12h NUV-light for 14 days.

Put 150 g of cereal grains (wheat, barley, oat, rye) in an autoclavable bag.

Add 80 ml dest. H<sub>2</sub>O.

Seal the bag with a plug and autoclave it two times (121°C, 20 min).

Take half of the content of one overgrown V8-petri dish, put it into the bag and spread the inoculum by kneading the bag.

Incubate the inoculated bag at 22°C and 12h NUV-light for 4 weeks, turn it over and knead it again after 2 weeks. Note: There is no conidia formation at this phase/stage.

Scatter 5g of inoculated grains/m<sup>2</sup> between the potato rows. Note: Conidia formation can be observed after approx. 1 week.

V8-medium:

Vegetable juice	200ml
CaCO <sub>3</sub>	2g
Agar	15g
dest. H <sub>2</sub> O	800ml