

Production of oospores in leaves

- Make a sporangial suspension of a A1 and a A2 isolate ($1,0 \times 10^4$ sporangia ml^{-1})
- Mix suspension in equal amounts. Cool the suspension for at least ½ hour at 4°C.
- Place leaflets or leaves of potato cultivar Bintje abaxial side up in a \varnothing 90-mm or a 140-mm Petri dish on 1% water agar (WA).
- Spray the suspension onto the leaves with a spraying nozzle (pressure is $0,5 \text{ kg}\cdot\text{m}^{-2}$) until the leaves are completely covered with small drops (runoff).
- Place the Petri dishes with the inoculated leaflets in a plastic tray on wet paper and covered with a plastic transparent bag to inhibit dehydration.
- Incubate the inoculated leaves respectively for 1 day in dark at 15°C, 1 day at 15°C at a light intensity of 12 Wm^{-2} 16 h a day and at least 2 weeks at 11°C at a light intensity of 12 Wm^{-2} 16 h a day.
- Spray the leaves after one week with tap water in case of dehydration.
- Oospores are usually formed in 2 weeks.