

455-1 **First report of *Groundnut ringspot virus* on hydroponic lettuce in the state of Pará**
(Primeiro relato de *Groundnut ringspot virus* em alface hidropônica no estado do Pará)

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Resumo

Lettuce (*Lactuca sativa*) is one of the most cultivated vegetables in the state of Pará, Brazil, but, until now, no virus has been reported in this culture at the state. Samples of hydroponic lettuce from the municipality of Jacundá, Pará State, with characteristic symptoms of the spotted wilt disease like: deformation, russet and foliar necrosis, were sent to the Laboratory of Plant Pathology of Embrapa Amazônia Oriental for diagnosis. From the extraction of total nucleic acids, we performed the RT-PCR using the BR60 and BR65 primers, specific to the *Tospovirus*, which amplifies part of the coat protein gene. After electrophoresis, we observed the expected DNA band of 454 pb, confirming the presence of a virus belonged to the *Tospovirus* genus in lettuce. The DNA fragment was sequenced and analyzed using the Blast and ClustalW programs. We identified the *Groundnut ringspot virus* (GRSV), which presented the nucleotide identity of 98% with GRSV accession available in GenBank. This is the first report of GRSV infecting lettuce in the state of Pará.

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