



VERSION: 1.0	DATE: 12/2012
PATHOGEN: Peronospora farinosa f.sp. spinaciae	
HOST: spinach (<i>Spinacia oleracea</i>)	
COMMON NAME: downy mildew	
METHOD: Lcb 3.2 CDFA Wash Test	
METHOD CLASS: TEMPORARY STANDARD (B)	
SAMPLE: 10,000 seeds	

PROCEDURE:

1. Divide sample of 10,000 seeds into approximately 3 subsamples.
2. Add 100ml of water and Tween 20 to seeds.
3. Shake seed for 2 hours.
4. Use a hemocytometer to find and estimate spores per seed. Centrifuge and sieves can be used to separate out spores.

REFERENCES:

CDFA Plant Disease Diagnostic Center, 3294 Meadowview Rd., Sacramento, CA 95832

IMAGES:

http://mtvernon.wsu.edu/path_team/DiseaseGallery/spinach-downy-mildew-4.htm



Sporangiophore and sporangia of *Peronospora farinosa* f. sp. *spinaciae*.
Photo Source: Lindsey du Toit