

VERSION: 1.0	DATE: 2001
PATHOGEN: Sclerophthora macrospora (syn: Sclerospora macrospora)	
HOST: Maize (Zea mays)	
COMMON NAME: crazy top downy mildew	
METHOD: Mz 5.1 Direct Visual Method (CIMMYT) (formerly Cf 5.1)	
METHOD CLASS: STANDARD (A)	
SAMPLE: 400 seeds, 8 replicates of 50 seeds	

PROCEDURE:

1. Place 50 seeds / replicate in a 250 ml beaker containing a combined solution of 5% NaOH and 0.02% Aniline Blue.
2. Soak seeds for approximately 36 hours to obtain adequate softening for internal tissue examination.
3. Pour resulting material into a 15 x 23 cm plastic box.
4. Squash embryos with a spatula and spread into a thin layer.
5. Examine under a microscope (at 50X magnification) for characteristic oospores that are hyaline to yellowish and 45-75 µm diameter.

REFERENCES:

Warham, E. J., Butler, L. D. and Sutton, B. C. 1995. Seed Testing of Maize and Wheat: a laboratory guide. CIMMYT. 1995. CIMMYT and International Mycological Institute. ISBN: 968-6923-70-5