

*Indian Standard*

**METHODS FOR DETERMINATION OF  
CARBOFURAN RESIDUES IN CROPS,  
SOIL AND WATER**

**1. SCOPE**

**1.1** This standard prescribes spectrophotometric and gas chromatographic methods for the determination of carbofuran (2, 3-dihydro-2, 2-dimethyl-7-benzofuranyl methyl carbamate), 3 hydroxy carbofuran and 3 ketocarbofuran residues in crops, soil and water.

**1.1.1** The spectrophotometric method may be adopted as a limit test for routine purposes and is generally applicable at 0.1 µg/g (0.1 ppm) residue level, whereas, the gas chromatographic method shall be the reference method with the limit of detection of 0.02 µg/g (0.02 ppm).

**1.1.2** Though no set procedure for Thin Layer Chromatography (TLC) is being prescribed, standardized TLC procedures may be followed, if necessary for the purpose of clean up, identification and confirmation of carbofuran residues.