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The PourThru method is a quick and easy procedure to test substrate pH and EC in-house without disturbing plant roots or removing substrate. The general procedure to perform a PourThru is outlined below:

STEPS

1

Irrigate 3 to 5 representative plants or the entire crop to container capacity.



2

While waiting 30 minutes to 1 hour, calibrate the pH and EC meter(s). Refer to CEH-1-IG.



3

Place a plastic collection saucer under each container to be sampled.



4

Pour distilled water over the substrate surface, circling the plant.



5

Collect leachate from each saucer for pH and EC evaluation.



6

Test each leachate sample and record the pH and EC values for each plant.



7

Interpret results of the leachate samples using the searchable database at www.fertdirtsquirt.org.



Common Name: Fuchsia
pH Category: II -III - pH 5.5 - 6.2
Fertilization Category: Low to Medium - 100-200ppm
EC Category: A-B

1:2 Extract EC: 0.4 - 0.9
Saturated Media Extract EC: 0.9 - 2.0
Pour Thru EC (bottom): 0.9 - 2.0
Pour Thru EC (top): 1.3 - 3.0

Photos by: W. Garrett Owen, Ph.D.