

Palintest

Water Analysis Technologies

Nitrogen, Total/30

Photometric test for Total Nitrogen in natural and waste water

COLOUR CHANGE

Colourless to Yellow

RANGE:

0 - 30 mg/L N

TECHNICAL RESOURCE:

Nitrogen, Total 30N Test Method, Technical Information

NOTES:

Tubetests Nitrate Powder is light sensitive. Keep lid closed when not in use

01



Turn on heater block and set temperature to 105°C. Note: Timer may need setting above zero for warm up to start.

02



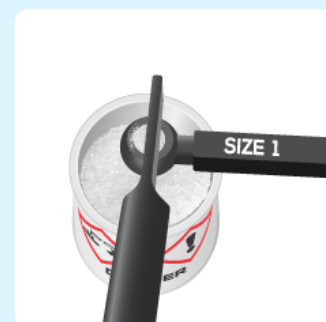
Locate the Reagent No1 pack and equipment. Add THREE SIZE 1 scoopfuls to a Total Nitrogen Tubetest, as follows...

03



Remove screw cap from Tubetest and fit funnel to tube.

04



Take the Size 1 Dosing Scoop and fill it by dipping it in to the powder. Then, draw the scraper across the scoop to ensure a level fill.

05



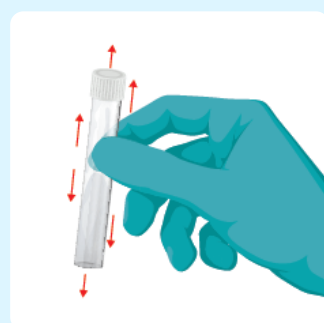
Locate the scoop in the funnel and rotate it so that the powder falls in to the tube. Tap back of scoop. Be sure, to add THREE scoopfuls.

06



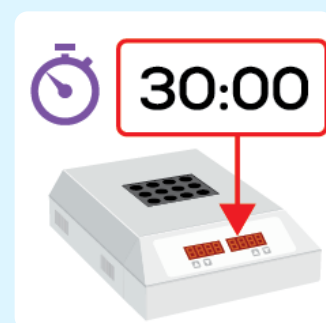
Then, add 5 mL of sample using a pipettor.

07



Secure cap and shake vigorously for 30 seconds.

08



Set timer on heater block to 30 minutes.

Test continued on page 2



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09



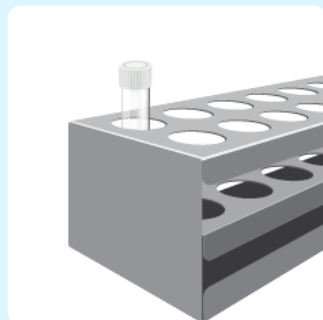
Place the tube in the heating block.

10



Ensure safety screen is in position, and digest tube at 105°C for 30 minutes.

11



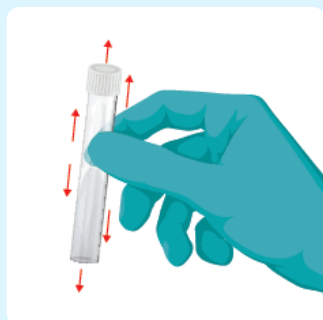
Carefully remove tube and place in a rack to cool.

12



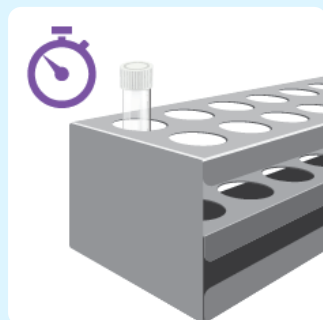
Add ONE level scoop of Total Nitrogen Reagent No2. Using dosing scoop SIZE 4. Warning: sulfur dioxide will be evolved.

13



Secure cap and shake vigorously for 15 seconds.

14



Place back in the rack and leave for 3 minutes.

15



Remove 1 mL from the digested tube and carefully transfer to a Nitrate/30N Tubetest. DO NOT SHAKE.

16



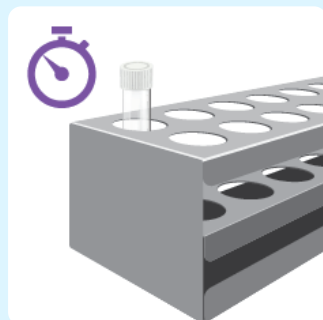
To the same Nitrate/30N tube, add ONE level scoopful of Tubetest Nitrate Powder, using dosing scoop SIZE 1.

17



Ensure cap is fully tightened, then slowly invert tube five times. Warning: Tube will become hot.

18



Place in rack and wait 5 minutes.

19



Fit the Tubetest adapter to Lumiso. Then, "blank" instrument by placing an unused Nitrate/30N Tubetest in the cell holder and pressing Blank.

20



Then, place the Sample tube in the cell holder and press Measure to display the Total Nitrogen concentration.