ENOLOGICAL DIAGNOSIS • QUICK GUIDE

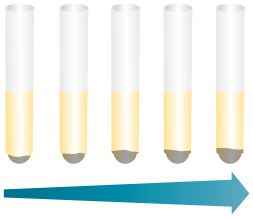
VINEO™ Unstable Proteins 354-8121

Equipment Preparation

- Prepare the required number of test strips and incubation chambers
- Dilute the R2 wash solution 1X (40 ml 1X per test strip)
- Hold the solutions at room temperature for 15 minutes before use

Sample Preparation

Wine sample
Direct control



Wine + Bentonite
Increasing concentration range of bentonite

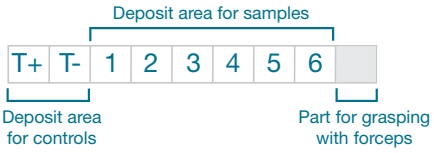
Direct control of the presence of unstable proteins in wine

- No wine treatment

Control in wine sample treated with increasing amounts of bentonite

- Prepare a concentration range of bentonite in 2 ml or 4 ml of wine (see annex 1 instructions)
- Mix by inverting 5 to 6 times
- Let precipitate overnight

Sample Deposit

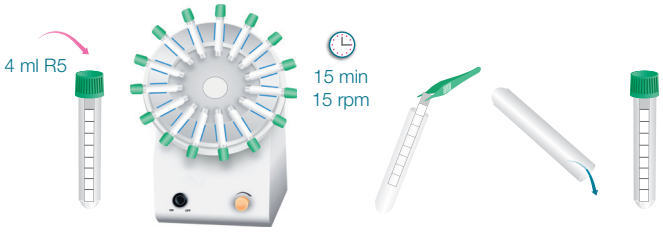


- 5 µl in sample areas 1 to 6

- 5 µl of untreated wine sample in area 1
- 5 µl of the various concentrations within the range of interest into the areas 2 to 6

- Deposit 5 µl of R4 in the area marked T+
- Deposit 5 µl of R3 in the area marked T-
- Let air dry for 10 minutes

Saturation



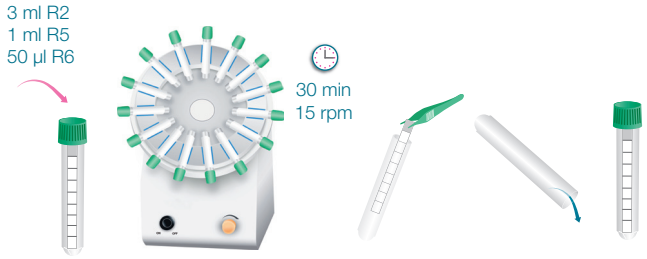
- Place the test strip in an incubation chamber
- Add 4 ml of R5 saturation solution
- Place on rotary shaker for 15 minutes at 15 rpm
- Take out the strip using forceps
- Empty the incubation chamber
- Put the strip back into the same tube

Please read the kit instruction manual for complete and detailed instructions.

BIO-RAD

Immuno-detection of Unstable Proteins

1 - Primary Detection



- Add in the incubation chamber:
  - 3 ml of R2 solution diluted to 1X
  - 1 ml of R5
  - 50 µl of R6
- Place on rotary shaker for 30 minutes at 15 rpm
- Take out the strip using forceps
- Empty the incubation chamber
- Put the strip back into the same tube

2 - Washing*


Washing 1

Washing 1:

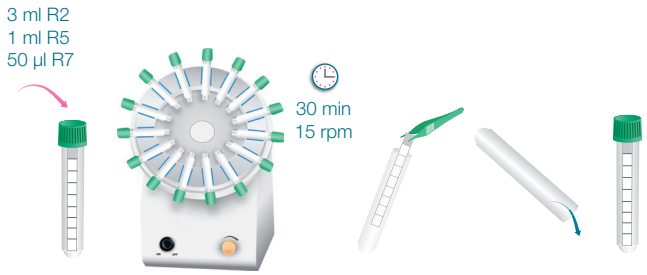
- Add 4 ml of R2 solution diluted to 1X
- Rinse 10 seconds by manually inverting tube
- Take out the strip using forceps
- Empty the incubation chamber
- Put the strip back into the same tube


Washing 2: repeat 2 times

Washing 2 (Repeat this step 2 times):

- Add 4 ml of R2 solution diluted to 1X
- Place on rotary shaker for 5 minutes at 15 rpm
- Take out the strip using forceps
- Empty the incubation chamber
- Put the strip back into the same tube

3 - Secondary Detection



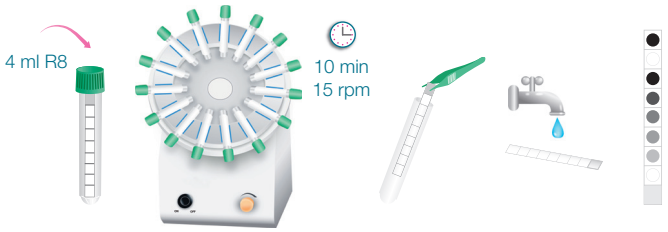
- Add in the incubation chamber:
  - 3 ml of R2 solution diluted to 1X
  - 1 ml of R5
  - 50 µl of R7
- Place on rotary shaker for 30 minutes at 15 rpm
- Take out the strip using forceps
- Empty the incubation chamber
- Put the strip back into the same tube

4 - Washing


Washing 1 + 2X Washing 2

* Repeat step: 2 - Washing 1 + 2X Washing 2

Results



- Add 4 ml of R8 development solution
- Place on rotary shaker for 10 minutes at 15 rpm
- Take out the strip using forceps
- Rinse the strip with water
- Let air dry on a piece of absorbent paper
- Read and interpret results

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