

mö-screen BTM (Bladder Tumor Marker) Test Panel for Urine

(Revised Feb 3-2015)

Intended Use

The mö-screen BTM (Bladder Tumor Marker) combo test is a simple one step immuno-chromatographic assay for the rapid, detection of Bladder Cancer Marker in urine.

Principle

The mö-screen BTM combo test employs a unique combination of monoclonal and polyclonal antibodies to selectively identify in test samples with a high degree of sensitivity. The targeted bladder cancer marker for the BTM test is the human factor H protein, a well recognized marker for bladder cancer.

Storage and Stability

The mö-screen BTM combo test kit should be stored at room temperature or 2-30°C (35.6-86°F). The test device is sensitive to humidity and as well as to heat. Perform the test immediately after removing the test device from the foil pouch. Do not use it beyond the expiration date.

Warnings

- 1. For in vitro diagnostic use only.
- 2. Do not eat or smoke while handling specimens.
- Wear protective gloves while handling specimens. Wash hands thoroughly afterwards.
- 4. Clean up spills thoroughly using an appropriate disinfectant.
- Decontaminate and dispose of all specimens, reaction kits and potentially contaminated materials, as if they were infectious waste, in a biohazard container.
- 6. Do not use the test kit if the pouch is damaged or the seal is broken.

Specimen preparation

 Specimen collection should not be performed during or within three days of a menstrual period for female, and if a positive result is obtained with a subject who are on aspirin, the test should be repeated after aspirin has been stopped for 7 days.

Specimen Collection

- Only urine specimens should be used in this assay. Specimen should avoid contamination of toilet water.
- 2. Specimens collected, if not tested the same day, can be refrigerated and stored at 4 to 8 °C for testing up to 3 days after collection.

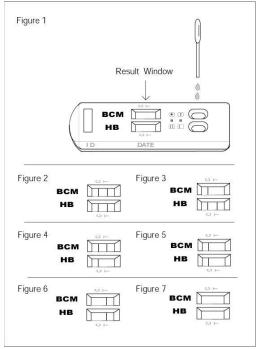
Procedure of the Test

- Remove the test panel from the foil pouch, and place it on a flat, dry surface.
- 2. If the specimen is refrigerated, then bring it to room temperature.
- 3. Transfer 2 to 3 drops of urine to the each well of the bladder (Figure 1)
- As the test panel begins to work, you will see purple color move across the respective Result Window in the center of the Test Panel.
- Interpret test results at 9 minutes. Do not interpret test results after 10 minutes.

Caution: The above interpreting time is based on reading the test results at room temperature of 15 to 30 °C. If your room temperature is significantly lower than 15 °C, then the interpreting time should be properly increased.

Interpretation of the Test

- A color band will appear at the left section of the result window to show that the test is working properly. This band is the Control Band.
- A color band will appear at the test line "T" of the HB section (indicated by letters of "HB") section of the result window when hemoglobin level in a sample is 250 ng/ml or higher.
- 3. A color band will appear at the test line "T" of the Bladder Cancer



Marker section (indicated by letter "BCM") section of the result window when BCM is detected in the urine.

Positive Result: If presence of the "C" color band along with either or both visible test lines "T" of the HB and BCM sections (no matter which band appears first), then it indicates a positive result (Figures, 2, 3 and 4).

Negative Result: If presence of only the "C" color band within the result windows in both the HB and BCM sections, then it indicates a negative result. (Figure 5)

Invalid Result: If after performing the test no color band or no "C" color band is visible within the result window, then the test is considered invalid. The directions may not have been followed correctly or the test may have deteriorated. It is recommended that the specimen be re-tested. (Figures 6 and 7)

Note: Once a positive result has been established (at 9 minutes), the result will not change. However, in order to prevent any incorrect results, the test result should not be interpreted after 10 minutes.

Interpretation of Result:

1. A positive in both HB and BCM indicate a likelihood of Bladder Cancer, however requires further confirmation.

- 2. A positive in HB, other common causes of blood in urine need to be ruled out, such as bleeding from stones or enlarged prostate, and the subject need to be followed up with repeated testing.
- 3.Negative results do not exclude bladder cancer, Other clinically available tests are required if questionable results are obtained. As with all diagnostic tests, a definitive clinical diagnosis should not be based on the results of a single test, but should only be made by the physician after all clinical and laboratory findings have been evaluated.

Clinical Study/Relative Sensitivity:

A total of 225 patients with biopsy confirmed bladder cancer took part in this study, of the 225 patients, stages were determined on 223, and grades are determined on 210 patients.

N	Sensitivity	Sensitivity
	(BCM	(BCM and
	Only)	HB)
14	57%	57%
69	82.6%	85.5%
140	86.4%	94.2%
223	83.4%	89.2%
N		
47	38.2%	42.5%
61	63.9%	70.5%
102	89.2%	97.1%
210	70.5%	77%
	14 69 140 223 N 47 61	(BCM Only) 14 57% 69 82.6% 140 86.4% 223 83.4% N 47 38.2% 61 63.9% 102 89.2%

The mö-screen BTM combo test had overall sensitivity varying from 77% to 89.2%.

Relative Specificity

To obtain Clinical Specificity data, urine from 38 healthy individuals with no known bladder tumors are tested:

N	True Negative
Bladder/hb Positive	4
Bladder/hb Negative	34
Total	38
m 1 1 11 0	

Bladder Tumor test had overall Specificity of 89.5% (34/38)

References

1) Badrinath R. Konety and Robert H. Getzenberg: Urine based markers of urological malignancy. The Journal of Urology, Vol. 165, 600-611, Feb, 2001

2) M-P Raitanen, E Kaasinen, E Rintala, E Hansson, P Nieminen, R Aine, TLJ Tammela1 and The Finn Bladder Group*: Prognostic utility of human complement factor H related protein test. British Journal of Cancer (2001) 85(4), 552–556

Ordering Information

mö-screen BTM Test 10 Test Cassettes Cat.-No.: 0230006





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