



INSTRUCTIONS FOR USE

SENSITIVE ONE STEP TEST

Carcinoembryonic Antigen (CEA)
Detection in Whole Blood/Serum/Plasma

Only for professional in vitro diagnostic use

Product Code: TCEA01
The Carcinoembryonic Antigen (CEA) Test Device detects tumor marker CEA in human whole blood, serum and plasma

BACKROUND INFORMATION

Carcinoembryonic Antigen (CEA) is a tumor-associated antigen characterized as an oncofetal glycoprotein. CEA is expressed in a variety of malignancies particularly pulmonary or gastrointestinal tumors (e.g., colon cancer, liver cancer and lung cancer). CEA normally occurs in fetal guit tissue with detectable serun levels essentially disappearing after brith. Therefore, elevated levisk of CEA can be of significant value in the diagnosis of primary carcinomas. In addition to qualitative assessment. CEA testing plays an important role in the monitoring of cancer patients. Clinical evidence indicates that CEA levels can serve as predictive markers in both pre- and post-treatment cancer. Progressive elevation of CEA may signal tumor recurrence 3-36 months before clinical evidence of metastasis. Persistent elevation of circulating CEA following treatments strongly indicative of occult metastatic and residual diseases and deficient therapeutic response.

INTENDED USE c Antigen (CEA) Test Device is a neer patients. e detection of CEA in human whole blood / serum / p

REAGENTS

METHOD

PRECAUTIONS AND LIMITATIONS

- 1. For professional and in vitro diagnostic use only.
 2. Do not use test let beyond expiry date. The test device is single use. Do not reuse.
 3. The lest device is doubt remain in the original sealed pouch until usage. Do not use the test if the seal is brighted to the profession of the seal of the seal is brighted to the profession of the seal is brighted to the

SAMPLE COLLECTION AND PREPARATION

For Whole Blood Samples: Test should be performed immediate anticoagulants (EDTA, heparin, citrate should be used) to avoid coagulants

For Serum Samples: Collect blood into a collection tube without the end of centrifuge period remaining supernatant is used as s

For Plasma Samples: Collect blood into a co centrifuge the blood. At the end of centrifuge p

Additional materials required but not provided: Sample colbulbs and capillary tubes (for only fingerstick whole blood).

TEST PROCEDURE

1. Take the test device out of its pouch. Bring the tests and whole blood / serum/plasma samples to room temperature.
2 For Whole Blood Samples: Draw whole blood into dropper and put 2 drops (60 µl) into the sample well of the cas added into the sample well and allowed to soak in.

For Serum/Plasma Samples: Draw serum/plasma into dropper and put 1 drop (30 µl) into the sample well of the is added into the sample well and allowed to soak in. Avoid the formation of any air bubbles.

3 Depending on the CEA concentration in the sample, the test can react even in 5 minutes. Results should be read at minutes should be regarded as invalid.

INTERPRETATION OF RESULTS







QUALITY CONTROL

Tests have built in procedural quality control features. When the test is complete, the user will see a colored line in the "C" area of the test on colored in in the "T" and "C" area on positive samples. The appearance of the control "C" line is considered as an internal coolered in on the "T" and "C" area of positive samples. The appearance of the control "C" line is considered as an internal countrol and sufficient volume of sample was added as well as valid test result. It is recommended that a negative control and a positive control be upperformance as an external control. User should follow appropriate feeders, state and note alguidelines concerning the external registry controls.

PERFORMANS EVALUATION Sensitivity and Specificity

TheCarcinoembryonic Antigen (CEA) Test Device has correctionical specimens. The results are as below.

Total Results Results Negative Negative

Cut off: 5 ng/ml CEA Sensitivity: 99,3 % + Predictive V: 99,0 % 99,3 % 99,6 % Specificity: - Predictive V:

Within-run precision has been determined by using 15 replicates of three spec positive values were correctly identified >99% of the time.

r-Assay ween-run precision has been determined by 15 independent assays on the same three specimen cincembryonic Antigen (CEA) Test Device have been tested using negative, low positive and high positive te time.

CROSS REACTIVITY

timens positive for HCV, HBV, HIV, AFP and Rheumatoid factor (RF) have been tested. No cre ten (CEA) Test Device has a high degree of specificity for Carcinoembryonic Antigen.

INTERFERING SUBSTANCES

The Carcinoembryonic Antigen (CEA) Test Device has been tested for possible interference from visibly hemolyzed and lipemic specimens. No interference was observed in specimens containing up to 2.000 mg/dt. Hemoglobin, 30 mg/dt. Bilirubin, 700 mg/dt. Triglycendes and 1.700 mg/dt. Total typical.

REFERANCES

1, Gold Panu. 1965. 2. Banjo C, Gold P, Freedn Pricinoembryonic Antiger Turberville C rific antigens in human colonic carcinomata by immunological tolerance and absorbtion, J. Exp. Med. 121:439

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