

CE Prothrombin®

Whole Blood Microcoagulation Systems

Prothrombin Time (PT) Package Insert

English

INTENDED USE

The Hemochrom® PT is a microtiter microcoagulation test intended for use in performing diagnostic prothrombin time (PT) assays.

The PT is performed on any Hemochrom® model using fresh whole blood plasma. Each instrument is portable and is intended for bedside use. The instrument is not intended for home use.

For in vitro Diagnostic Use. For Professional Use. Rx Only

SUMMARY AND EXPLANATION

The Hemochrom® PT is a test of the extrinsic coagulation pathway. The whole blood test system mimics one of the variables known to affect the reliability of plasma PT assays including reagent, handling and processing. The instrument is specifically designed to provide a stable, reproducible PT result. Since no specimen processing is required, PT results are obtained in less than two minutes.¹

bedside testing is especially valuable during procedures and therapeutic interventions that require continuous and/or frequent anticoagulation and for hemostasis assessment before or after transfusion.

PRINCIPLE OF OPERATION

The Hemochrom® PT is a microtiter endpoint clotting mechanism in which testing occurs within the disposable PT cuvette. Following whole blood sample introduction, the instrument precisely measures 15 microliters of blood and automatically mixes it into the cuvette channel within the PT cuvette. The remainder of the blood sample, not needed for testing, is automatically drawn into the waste channel of the cuvette. Sample/reagent ratios are constant and are unaffected by instrument variation or operator interaction. After mixing and reagent, the sample is moved back and forth between the cuvette and monitored for clot formation.

The clot detection mechanism consists of a series of LED optical detectors which scan the test cuvette from the cuvette end. The speed at which the blood sample enters between the detectors is measured. As clot formation begins, blood flow is impeded and the movement slows. The instrument recognizes this change in flow rate and terminates the test. The instrument is designed and pre-programmed so that the instrument reports whole blood numbers mathematically derived from an International Normalized Ratio (INR) and a plasma equivalent value. The Hemochrom® PT uses a microtiter assay by depressing and holding the START key.

REAGENTS

Each Hemochrom® PT cuvette contains:

— 45 µcups, each containing one Hemochrom® PT PT cuvette and one desiccant

The PT cuvette is a self contained disposable test chamber preloaded with a dried preparation of thromboplastin, substances and buffers. Each cuvette is individually packaged in a cover. Cover caps are stamped with a lot-specific expiration date.

CAUTION: All used test cuvettes should be considered as potentially infectious. Handle with care and dispose of using standard medical waste disposal policy.

WARNINGS AND PRECAUTIONS

DO NOT use cuvettes that are past their marked expiration date, or that have been improperly stored.

DO NOT force a cuvette into the instrument. If resistance to insertion is encountered, stop trying to force the cuvette into the instrument. Remove any obstruction before attempting further use of the instrument (see Service and Maintenance in the accompanying Hemochrom® PT Operator's Manual).

STORAGE AND STABILITY

When refrigerated (2 - 8°C), the full pouch of PT cuvettes are stable under the marked expiration date. Room temperature (15 - 30°C) is optimal for unopened, pouches of cuvettes. PT cuvettes should not be exposed to temperatures in excess of 37°C.

NOTE: Room temperature re-drying is to a maximum of 12 weeks, but must never exceed the marked expiration date. Re-drying is necessary if stored in room temperature and should be indicated by completing the storage information section of the "Performance Verifies" table on the side pouch of each cuvette. The operation of the instrument requires the open end, and refrigeration, is stable for seven days. For optimal shelf-life, it is recommended to open the cuvette pouch immediately before use.

OPERATING INSTRUCTIONS

Before performing any tests, the user should refer to the appropriate Hemochrom® PT Operator's Manual for detailed operating instructions. The instrument is operated by inserting a cuvette into the instrument, allowing it to warm, introducing a whole blood sample and depressing the START key. Sample movement, sample/reagent mixing, test initiation and clot detection will then proceed automatically.

Material Provided

— Preloaded Hemochrom® PT test cuvettes

Material Required, but Not Provided

Hemochrom® PT cuvettes (Hemochrom® PT Signature

— 1 ml or 1 ml plastic syringes, 23 or 21 gauge needles (for syringe sampling)

— Fingerless device, alcohol swab, gauze (for fingerstick sampling)

KÄYTTÖOHJEET

Hemochrom® PT on erillispakkaus koostunut yhdistelmästä, joka sisältää mikrokoagulaatioasetin, jota kalsiumia proteiini sisältävällä plasmaa.

PT-mittäyksiä suorittaa suoraan täällä Hemochrom® -mittarilla käyttämällä laktoosia otettua kokeenainetta. Tulokset ovat siirtokelpoisia ja niillä voidaan käyttää laboratorioluokituksen. Niitä näkyy ole siirtokelpoisia.

Diagnostiseen *in vitro*-käyttöön. (EN 1082-1)

YHTEYSEIN JA MENETÄMÄN SUOJUS

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Sensitivity and Specificity of Hemochrom® PT Test (Fig. 1, 2 and 3)

The Hemochrom® PT test was tested with a standard whole blood preparation which was spiked with varying amounts of plasma and increasing concentrations of pooled plasma deficient in Vitamin K dependent clotting factors (Factors II, VII, IX and X). The Hemochrom® PT test was retested for its labelling precision using a standard thromboplastin reagent (Dade, Baxter Healthcare Corporation, Dade Division, Miami, FL) and Electra 900 (IL, Lexington, MA). In addition to PT reagent sensitivity, various clot detection methods were evaluated during clotting factor sensitivity.

Summary of Sensitivity (Fig. 4)

The Hemochrom® PT instrument and whole blood PT test cuvette were tested against a standard laboratory plasma assay to assess the sensitivity of the whole blood test relative to this standard plasma assay. The substrate used in the plasma test were samples with diminishing Vitamin K clotting factor concentration. The sensitivity to specific factor deficient plasma was also tested. The PT results of these plasma samples were first determined using the Electra 900 (IL, Lexington, MA) with commercial reagent (Dade Thromboplastin, Baxter Healthcare Corp., Dade Division, Miami, FL). Subsequent to this assay, an appropriate volume of red blood cells was added and the whole blood sample was tested in the Hemochrom® PT instrument with the PT cuvette. The results of the plasma and whole blood tests were subjected to statistical analysis. All comparisons were significantly correlated.

Summary of Precision

Four Hemochrom® PT instruments were subjected to precision tests with two levels of whole blood control, normal and abnormal. Instruments were used repeatedly within a day to establish the expected variation among instruments. Instruments were also tested with the whole blood control for the consecutive days to establish the expected variation day to day. The instrument variation was demonstrated to be within 10% for both levels of whole blood control.

Clinical Relevance (Fig. 5)

The Hemochrom® PT test was assessed in three hospital based outpatient thrombosis clinics with patients (n=180) who were routinely monitored on coumadin therapy. Each hospital had a unique instrument reagent combination and collected the whole blood in different sodium citrate concentrations. Near patient and laboratory data in all sites were obtained by computer using a sample data base which included patient name, hospital name on the Hemochrom® PT and the Hemochrom® II Signature. The instrument was mixed with sodium citrate and sent to the laboratory for processing. All test was performed on the duplicate plasma samples and compared to the reagent. Fig. 5 represents the Hemochrom® INR (venous) results as compared to the laboratory plasma INR assays.

Comparison of Blood Acquisition Methods

In a separate analysis (n=50), the influence of the blood collection method was tested. The whole blood PT results obtained from the fingerstick (capillary) PT test were compared to the duplicate plasma PT test results. The test results were equivalent (n=0.95).

Quality Control (QC)

Routine quality control testing and tracking should be part of a comprehensive quality assurance program. Hemochrom® quality control products are available under the following categories:

Daily QC of the Instrument

The Hemochrom® PT should be quality controlled at two levels of control every 24 hours of operation. To assure its compliance daily QC. Electronic Daily Control is available as an option. It provides level check of the instrument. Refer to the Operator's Manual for the complete Hemochrom® Instrument use and operation instructions.

After the first mixing and reagent, the sample is moved back and forth between the cuvette and monitored for clot formation.

Performance Validation can be accomplished using the appropriate Hemochrom® Instrument. Whole Quality Control product. Acceptable performance ranges and how to apply them for the PT test cuvettes are included with each quality control product kit.

Limitations

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