

# BODY FLUIDS IDENTIFICATION - BLOOD

## HEXAGON OBTI

CODE: HU-829

The **HEXAGON OBTI** test is an ideal complement to **BLUESTAR® FORENSIC** but can also be used independently.

This test is very simple to use. **Two or three minutes are typically sufficient to check whether the revealed trace is human blood or not.**

Human hemoglobin (hHb) reacts with the conjugate composed of blue particles and monoclonal anti-human hemoglobin antibodies. The immunocomplex migrates to the test zone where it is captured by an immobilized second antibody directed against hHb forming a blue test line to indicate a positive result. Unreacted reagents migrate further and are bound in a second line by immobilized anti-mouse IgG antibodies. This control line indicates proper function and correct handling of the test. The test detects whole blood up to a dilution of 1 : 1,000,000. As little as 500 red cells are required for a positive result.

HEXAGON OBTI is a two-part test : a collection tube for the blood sample, and a test bar. A sample of the presumed human blood trace is transferred into the tube with transport medium. This mixture is added drop by drop to the test. A single blue line means the testing liquid is working fine but no human blood has been detected. Two blue lines mean the test has detected human blood.



### Kit contents

24 collection tubes  
24 test cassettes

## BLUESTAR® IDENTI-HEM

CODE: VD-HEM-20

**BLUESTAR® Identi-HEM** is primarily intended for forensic technicians who have found blood stains on a crime scene and need to quickly check the human origin of the blood before eventually sending a sample to a lab for thorough analysis.

This method uses a unique combination of monoclonal antibodies bound to colloidal gold and polyclonal antibodies bound onto a solid phase in order to selectively identify, with high sensitivity and specificity, human hemoglobin.

After being collected with the provided swab, the sample is placed into an extraction buffer. After the sample has been dispensed on the cassette, the extraction medium is absorbed through migration, the antibodies bound to the colloidal gold then bind to the hemoglobin to form an antibody-antigen complex. This complex then binds to the anti-hemoglobin antibodies present into the test area, and then a wine colored line appears. If there is no hemoglobin, no colored line appears in the test area. The mix keeps on migrating onto the membrane, goes beyond the test area, and then binds to the reagents into the control area to produce a wine-colored line, guaranteeing the reaction performed correctly.

**After dilution into the extraction buffer, the minimum haemoglobin level detected by the BLUESTAR® Identi-HEM test is 0.01 µg/mL.**



### Kit contents

20 sterile swabs  
20 collection tubes containing  
2 ml extraction buffer  
20 test cassettes

## COMBUR 3 TEST

CODE: 11896857191

The Combur 3 Test is a dry chemistry test strip used in forensic investigations to detect the presence of hemoglobin in suspected evidence. The strips become green because of the peroxidase activity of hemoglobin.

The chromatic reaction is not exclusive of hemoglobin and can give false positive results in presence of vegetal peroxidase, metals (in particular iron and copper), rust, some detergents containing hypochlorites, etc.

The Combur 3 Test cannot discriminate between human and animal blood. But it can detect even low concentrations of erythrocytes / hemoglobin (5-10 Ery/µL)



## RSID-BLOOD

CODE: 0330



### The First Confirmatory Test for Human Blood

Rapid test for Human.

Animal blood does not cross-react with this test procedure.

Species tested include ferever and primate

No high dose hook effect observed: Minimal sample dil. required . Avoid false negative results

### Detect as Little as 1 µl of Human Blood

RSID-Blood results correlate with STR results.

### Efficient Sample Analysis

Strip test results are complete in 10 minutes post stain extraction

### Dual Monoclonal Antibodies

Specific for human glycoprotein A antigen

No cross-reaction observed with human saliva, semen, urine, breastmilk, or amniotic fluid.

### Immuno-Chromatographic Lateral Flow Strip Test

Standard assay format

Extended shelf life

### Complete Set of Protocols included

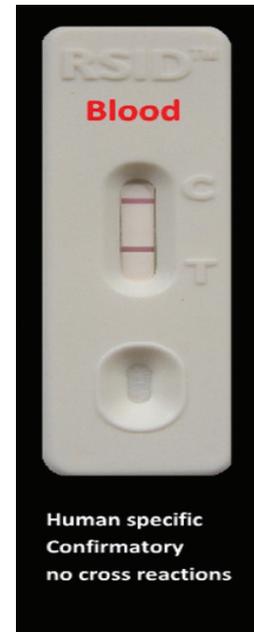
Extraction protocols for forensic samples, including envelopes, bottles, cans, and stained surfaces

Single-tube extraction protocol

Compatible with DNA extraction and STR analysis

Integration into standard laboratory procedure

- ◆ Only Confirmatory Tests for Human Blood  
No other body fluids cross-react  
No animal or Primate cross-reactivity
- ◆ No Animal, Bacterial or Fungal Cross Reactivity
- ◆ No High Dose Hook Effect  
No HDHE false negatives No dilutions required
- ◆ Multiple Body Fluid Detection from a Single Extraction due to **UNIVERSAL BUFFER** common to all RSID kits - RSID™-Semen, RSID™-Blood, and RSID™-Saliva compatible
- ◆ Test Sensitivity Calibrated to DNA-STR analysis  
Positive RSID-Test ≈ sufficient biological material for DNA



### TEST PROCEDURE

