Blood Identifier Kit

Product Name	Product Code	Kit Packing
Blood Identifier Kit	ML189-25R	25r
	ML189-100R	100r

Introduction:

In a forensic laboratory, a presumptive test indicating the possible presence of blood is an invaluable tool. It is the first of several procedures that are conducted on bloodstains by the forensic scientists. In many cases involving suspected blood, there is an insufficient amount of stain to proceed beyond the screening test. Such situations place an increased importance on the sensitivity and specificity of the presumptive test employed. This type of test has particular value in screening out samples that are definitely not blood and do not require further testing. The test should be sensitive to some component of blood which remains even after the blood has dried, aged, or become diluted. A presumptive test used for screening, should be simple to use and provide rapid results.

Description:

For many years, forensic science laboratories relied heavily upon the benzidine test to screen for blood. Because of the carcinogenic effects of benzidine, other suitable replacements have been sought by laboratories. An evolution of the tetramethylbenzidine test as a presumptive test for blood was reported by Garner, Cano, Peimer and Yeshion in 1976. HiMedia's Blood Identifier Kit is based on Teteramethylbenzidine (TMB).

Intended Use

Recommended for identification of forensic blood samples.

Kit Contents

Product Code	Reagents	Quantity	
		25R	100R
DS0367	Reagent BIA	50mg	200mg
DS0368	Reagent BIB	1ml	4ml
DS0346	Reagent BIC	1ml	4ml
DS0585	Dropper	1 No	1 No

Storage

Store the Blood Identifier Kit between 15-25°C. Under recommended condition kit is stable for 6 months

Types of Specimen

Forensic samples: Whole blood, blood stained cloth, dried blood spot

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Specimen Handling and Collection

The collection and preservation of blood stain evidence is important because, properly collected and preserved blood evidence can establish a strong link between an individual and a criminal act. There are two different types of blood that can be collected at a crime scene: liquid and dried blood. Liquid blood evidence is generally collected from blood pools but can be collected off of clothing as well, using a gauze pad or a sterile cotton cloth. After use, contaminated material must be sterilized by autoclaving before discarding.

General Preparation Instructions

1. Read the procedure carefully before starting the experiment.

Procedure for Blood Identification:

1. Open the bottles containing Reagent BIA and Reagent BIB.
2. Using the dropper (provided), add Reagent BIB to the bottle containing Reagent BIA. Cap the bottle containing mixture of Reagent BIA/ BIB. Mix well. This mixture will be white in color.
3. Place a drop of Reagent BIA/ BIB mixture using the dropper (provided) onto the dried blood stain and observe for color change.
4. Add a drop of Reagent BIC on to it and Observed the results immediately.
5. Dark bluish green color developed rapidly after addition of reagent BIC.
6. A dark bluish green color indicates the positive result.

NOTE: 1. The Reagent BIA/ BIB mixture is stable for 24 hours at Room Temperature (15-25°C)
2. Positive results should appear immediately after the addition of Reagent BIC (within 10 seconds).
3. If the color develops after 10 seconds, it should not be considered as a positive result, since the negative control itself shows color development after a period of time.
4. Sensitivity: The Blood Identifier Kit (ML189) can detect blood at dilutions up to 1:1000

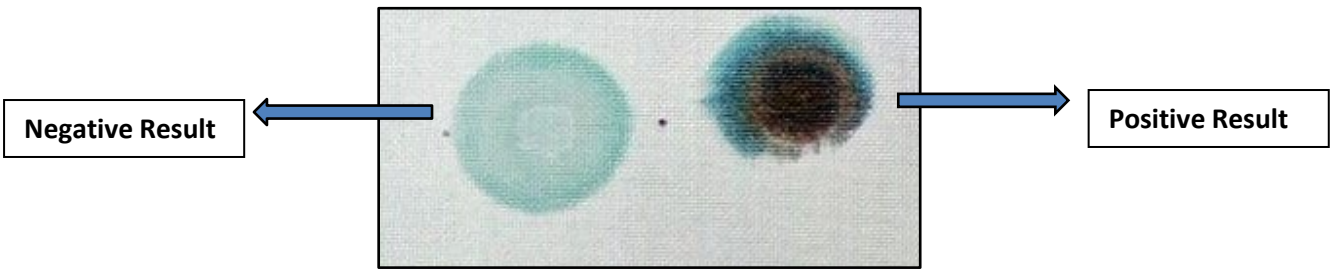

Fig 1: Identification of Blood Stains on Cloth

Warning and Precautions

Read the procedure carefully before beginning the protocol. Wear protective gloves/protective clothing/eye protection/face protection. Follow good laboratory practices while handling samples. Standard precautions should be followed as per established guidelines. Safety guidelines may be referred in safety data sheets of the product.

Limitations

Color development depends upon the forensic blood samples taken for detection.

Performance and Evaluation

Performance of the kit is expected when the kit is used as per the protocol mentioned in the product insert within the expiry period when stored at recommended temperature.

Safety Information

The Blood Identifier Kit is for laboratory use only, not for drug, household or other uses. Reagents BIA, BIB and BIC are irritants. Take appropriate laboratory safety measures and wear gloves when handling. Not compatible with disinfecting agents containing bleach. Please refer the Safety Data Sheet (SDS) for information regarding hazards and safe handling practices.

Technical Assistance

At HiMedia we pride ourselves on the quality and availability of our technical support. For any kind of technical assistance, mail at mb@himedialabs.com.

Symbol

	Manufacturer		Do not use if package is damaged
	Batch code		Temperature limit
	Date of manufacture (YYYY-MM)		Consult instructions for use
	Use-by date (YYYY-MM)		Catalogue number

Identification No.: PIML189
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