

# Universal Transport Medium

## INTRODUCTION

Universal Transport Medium contains ingredients that effectively inhibit DNase/RNase activity and can stably preserve viral nucleic acid in various samples (swab, oral fluid, saliva, whole blood, body fluid) for a long time at -20°C without degradation. This product is simple and convenient to use, can be widely used in hospitals, research institutes and others to collect and transport virus samples under room temperature.

## SAMPLE COLLECTION METHOD

1

Extend the cervical swab into the inner orifice of the cervix until the bristles on both wings are in close contact with the inner orifice.

2

Rotate in one direction for 2 to 5 turns and then withdraw.

3

The swab is disassembled and placed directly in the tube of the sample preservation solution for testing.



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## APPLICATION CASES

### CASE 1

The performance of Universal Transport Medium(BSC93) was compared to popular brand (Company Y) of cervical specimen preservation solution on the market. The concentrations of  $10^5$  and  $10^3$  copies/mL of HPV-16 national reference were detected at  $37^\circ\text{C}$  and  $2-8^\circ\text{C}$ , respectively. Comparison and analysis were performed after 1, 3 and 5 days of storage, the experimental results are shown in the table below.

| Sample                     | 1 Day | 1 Day |           | 3 Days |           | 5 Days |           |
|----------------------------|-------|-------|-----------|--------|-----------|--------|-----------|
| Storage temperature        | -80°C | 37°C  |           | 37°C   |           | 37°C   |           |
| Universal Transport Medium |       | BIOER | Company Y | BIOER  | Company Y | BIOER  | Company Y |
| $10^5$ copies/mL           | 25.45 | 25.21 | 25.96     | 26.12  | 26.15     | 25.13  | 25.87     |
|                            | 26.08 | 25.72 | 26.01     | 25.59  | 25.94     | 25.57  | 25.25     |
| $10^3$ copies/mL           | 29.21 | 30.13 | 30.35     | 29.94  | 30.10     | 29.99  | 30.38     |
|                            | 29.13 | 30.22 | 29.83     | 30.20  | 30.27     | 29.83  | 29.92     |
| Negative                   | --    | --    | --        | --     | --        | --     | --        |

Table 1 HPV Preservation test results at  $37^\circ\text{C}$

| Sample                     | 1 Day | 1 Day |           | 3 Days |           | 5 Days |           |
|----------------------------|-------|-------|-----------|--------|-----------|--------|-----------|
| Storage temperature        | -80°C | 2-8°C |           | 2-8°C  |           | 2-8°C  |           |
| Universal Transport Medium |       | BIOER | Company Y | BIOER  | Company Y | BIOER  | Company Y |
| $10^5$ copies/mL           | 26.09 | 25.99 | 25.55     | 26.01  | 25.33     | 26.12  | 25.76     |
|                            | 25.93 | 25.98 | 25.95     | 25.93  | 25.64     | 25.32  | 25.56     |
| $10^3$ copies/mL           | 30.15 | 30.08 | 30.27     | 30.04  | 29.94     | 30.16  | 30.32     |
|                            | 29.81 | 30.21 | 30.02     | 30.24  | 29.80     | 29.94  | 30.19     |
| Negative                   | --    | --    | --        | --     | --        | --     | --        |

Table 2 HPV Preservation test results at  $2-8^\circ\text{C}$

**Result:** The preservation effects of the Universal Transport Medium (BSC93) and the competing product are basically the same, indicating that this sample preservation solution can be used to preserve cervical exfoliated cells.

### CASE 2

The Bioer MagaBio plus virus DNA/RNA purification kit (Cat. No.: BSC57S1E) was used to purify 24 cervical swab samples. The amplification curve (including the human genome detection curve) is as follows.

**Result:** The cervical swab samples preserved by the Universal Transport Medium (BSC93) can detect the human genome normally, and the HPV positive genotype is completely consistent with the test results given by the hospital. It shows that the product has good clinical compliance.

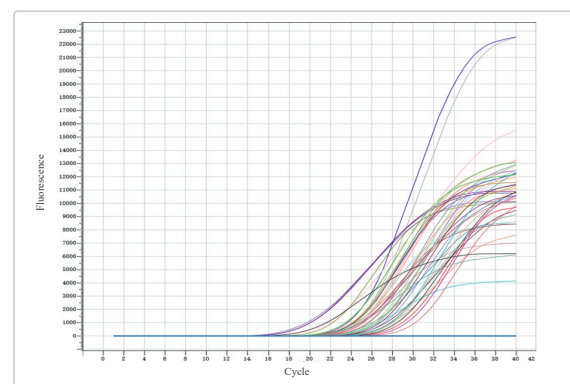


Figure 3 Amplification results of 24 clinical samples preserved in Universal Transport Medium (BSC93)

## ORDERING INFORMATION

| Product                    | Cat. #     | Volume   | Swab      | Notes  |
|----------------------------|------------|----------|-----------|--|
| Universal Transport Medium | BSC93X1-B3 | 50 x 3mL | Swab x 50 | The kit must be stored in its original packaging at $\leq 25^\circ\text{C}$ away from light for up to 12 months. |