TML/MSH Microbiology Department	Policy # MI\TECH\45\v01	Page 1 of 1	
Policy & Procedure Manual	-		
Section: Technical Manual	Subject Title: Tetrazolium Redu	Subject Title: <b>Tetrazolium Reduction</b>	
	Test (TTC)		
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# **TETRAZOLIUM REDUCTION TEST (TTC)**

#### **Principle**

To differentiate between *E. faecalis* and *E. faecium*.

*E. faecalis* reduces the colorless compound (Tetrazolium-chloride) to an insoluble substance formozan which is red.

### **Material**

BHI broth/Tetrazolium-chloride (TTC)

## **Procedure**

Inoculate a loopful of an overnight plate culture to 1 ml of TTC broth. Incubate at 35<sup>o</sup>C and observe the reaction at 2 hours. If negative, reincubate up to 8 hours / overnight.

#### **Interpretation**

Positive - deep magenta Negative - colourless or faint pink

## **Quality Control**

Positive: E. faecalis (ATCC 29212) Negative: E. faecium (ATCC 19434)

### **References**

1. J. Gen. Microbiology (1965), 38, 279-287.