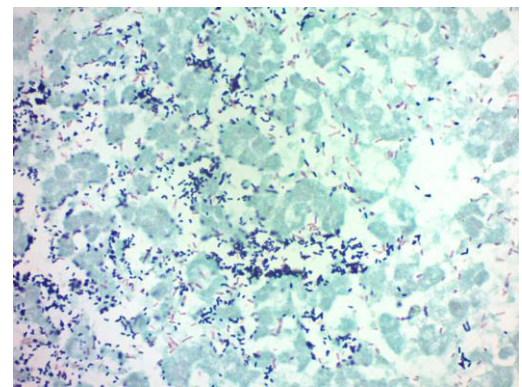


Twort's Gram Stain Kit

Description: The Twort's Gram Stain Kit is designed for positive and negative gram bacteria differentiation in formalin fixed paraffin embedded tissues. Gram negative bacteria stain pink to red, gram positive stain blue, and the background is stained light green.

Gram Positive Bacteria:	Blue
Nuclei and Gram Negative Bacteria:	Red
Background:	Light Green

Uses/Limitations: Not to be taken internally.
For Research use only.
Histological applications.
Do not use if reagents become cloudy.
Do not use past expiration date.
Use caution when handling reagents.
Non-Sterile.



Control Tissue: Any well-fixed FFPE tissue known to contain both gram(+) and gram(-) bacteria.

Ordering Information and Current Pricing at www.scytek.com


Availability/Contents:

<u>Item #</u>	<u>Kit Contents</u>	<u>Volume</u>	<u>Storage</u>
GVS125	Gentian Violet Solution	125 ml	18-25°C
LIS125	Lugol's Iodine Solution	125 ml	18-25°C
GDS125	Gram's Decolorizer Solution	125 ml	18-25°C
TCA125	Twort's Neutral Red (Part A)	125 ml	18-25°C
TCB030	Twort's Fast Green (Part B)	30 ml	18-25°C

Precautions: Avoid contact with skin and eyes.
Flammable.
Harmful if swallowed.
Follow all Federal, State, and local regulations regarding disposal.

Procedure:

1. Deparaffinize sections if necessary and hydrate to distilled water.
2. Apply adequate Gentian Violet Solution to completely cover tissue section and incubate for 1 minute.

Storage: 18° C  25° C



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3. Rinse slide in distilled water to remove excess stain.
4. Apply adequate Lugol's Iodine Solution to completely cover tissue section and incubate for 1 minute.
5. Rinse slide in gently running tap water to remove excess iodine.
6. Carefully drip Gram's Decolorizer over tissue until blue color no longer bleeds off section. **Note:** Decolorization for longer than 5 seconds may remove stain from gram positive bacteria.
7. Rinse slide quickly in gently running tap water. Leave in tap water until working counterstain (next step) is ready.
8. Prepare the following **Working Twort's Counterstain** solution and mix well.

Working Twort's Counterstain Solution:


30 ml	Distilled Water
(Add components in the order listed)	*9 ml Twort's Neutral Red (Part A)
	*2 ml Twort's Fast Green (Part B)

**If initial results/concentrations aren't optimal, adjust concentrations of red and green stain to suit staining intensity preference.*

9. Stain slide in Working Twort's Counterstain for 5-10 minutes. Use once and discard.
10. Rinse quickly in distilled water.
11. Blot and/or air dry slide until completely dry.
12. Clear, and mount in synthetic resin.

References

1. Twort F. W. (1924) J. State Med. 32 pg 351

Storage: 18° C  25° C

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