

## Acid-Fast Bacillus (AFB) stain kit (modified Kinyoun method)

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The cell wall of acid-fast bacteria (*Mycobacterium*, *Mycobacterium tuberculosis*, *Nocardia*, etc.) contains a large amount of lipids surrounded by peptidoglycan, so acid-fast bacteria do not color or are lightly colored in general bacterial stain solutions. Traditional dyeing methods require heating and extending the dyeing time to promote color. Once the mycolic acid in the cell wall of acid-fast bacteria is combined with the dye, it is difficult to be decolorized by acidic decolorization solution, hence the name acid-fast staining. The most representative one is the Ziehl-Neelsen staining method for *Mycobacterium tuberculosis*, which is the heat staining method recommended by WHO.

Acid-Fast Bacillus (AFB) Stain Kit (modified Kinyoun method) is a cold dyeing solution that does not require heating and is relatively safer than acid-resistant hot dyeing solution. The staining principle is that at room temperature, mycolic acid and fuchsin combine to form a complex. After counterstaining with methylene blue, mycobacteria are still red, while other bacteria and substances in the background are blue. This dyeing solution is slightly lighter than the Ziehl-Neelsen thermal dyeing method and is more suitable for dyeing with resistance to weak acid bacteria.

Catalog No.	260034
Size	3 x 50mL
Product Category	Histochemical Stain
Storage/Stability	Ambient/1 year
Shipping	Ambient