



VM-100 AUTO STAINER

VM-100 Transform Series



FEATURES



SPACE SAVER

Reagent bottles can be neatly organized behind the stainer saving work space and removing extra clutter.



HASSLE-FREE CLEANING

The stainer is equipped with an automatic cleaning function, allowing for a hassle-free cleaning of the nozzle and valve.



FAST AND ACCURATE STAIN

The dual-injection design allows an efficient and uniform staining on all slides as well as targeting specific slides.

VM	Category	Staining Method
VM-100ZF	AFB-TB	Z+F
VM-100KF		K+F
VM-100ZH		Z+GRAM
VM-100KH		K+GRAM
VM-100FH		F+GRAM

DUAL ▼



FEATURES



SMU

A maximum of 40 slides can be stained per cycle using only the minimum required volume of reagent. Targeting the reagent on specific slides will save up to 100% to 300% on water consumption which in turn will cut down on medical waste disposal costs.



MONITORING

Transparent window allows for monitoring while the machine is running and the lid is locked down automatically during SMU rotation.



TEMPERATURE MONITORING

The new and innovative air-heating system prevents the specimens from being overheated. Inside temperatures can be monitored and verified real time via display panel. The heating function is similar to the existing manual method.

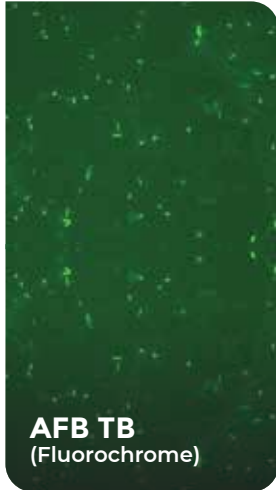


▼ SINGLE

VM	Category	Staining Method
VM-100Z		Ziehl-Neelsen
VM-100K	AFB-TB	Kinyoun
VM-100F		Fluorochrome
VM-100H	GRAM	Hucker's modify
VM-100W	HEMATOLOGY	Wright-Giemsa
VM-100P	PAP	Papanicolaou
VM-100G	DNA	Giemsa
VM-100HE	H&E	Hematoxylin&Eosin

REAGENT SERIES

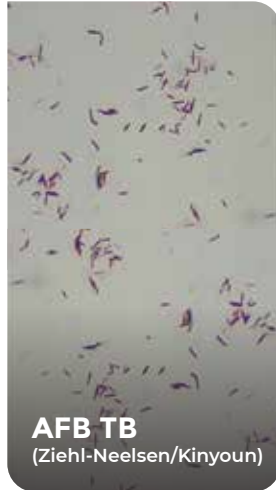
REAGENT VM-100F-K



AFB TB
(Fluorochrome)

- Auto and manual use.
- Wide selection of volumetric choices available.
- 8.45/16.91/33.81/167.38 oz
- Competitive global market pricing.
- High-quality staining results.
- All reagents are produced and synthesized by our own technicians.

REAGENT VM-100Z-K



AFB TB
(Ziehl-Neelsen/Kinyoun)

- Auto and manual use.
- Wide selection of volumetric choices available.
- 8.45/16.91/33.81/167.38 oz
- Competitive global market pricing.
- High-quality staining results.
- All reagents are produced and synthesized by our own technicians.

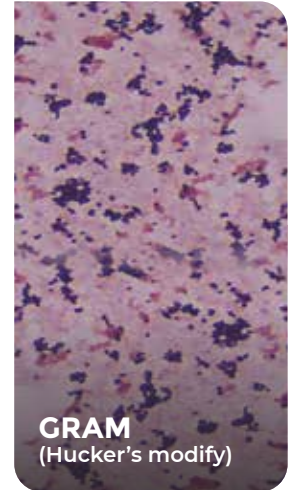
REAGENT VM-100G-K



DNA
(Giemsa)

- Auto and manual use.
- Wide selection of volumetric choices available.
- 8.45/16.91/33.81/167.38 oz
- Competitive global market pricing.
- High-quality staining results.
- All reagents are produced and synthesized by our own technicians.

REAGENT VM-100H-K



GRAM
(Hucker's modify)

- Auto and manual use.
- Wide selection of volumetric choices available.
- 8.45/16.91/33.81/167.38 oz
- Competitive global market pricing.
- High-quality staining results.
- All reagents are produced and synthesized by our own technicians.



1. Auramine rhodamine
2. Decolorizer
3. Pot. permanganate



1. Carbol fuchsin
2. Decolorizer
3. Methylene blue



1. Giemsa
2. Buffer



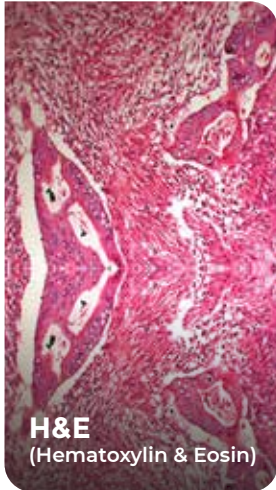
1. Crystal violet
2. Gram iodine
3. Acetone alcohol



1. Safranin

REAGENT SERIES

REAGENT VM-100HE-K

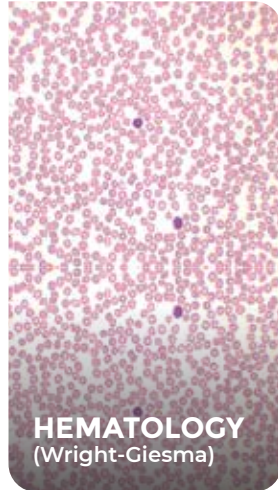


- Auto and manual use.
- Wide selection of volumetric choices available.
- 8.45/16.91/33.81/167.38 oz
- Competitive global market pricing.
- High-quality staining results.
- All reagents are produced and synthesized by our own technicians.



1. Hematoxylin
2. Bluing solution
3. Eosin

REAGENT VM-100W-K

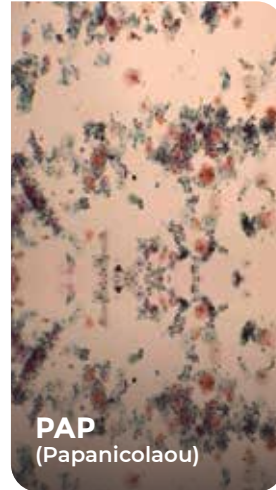


- Auto and manual use.
- Wide selection of volumetric choices available.
- 8.45/16.91/33.81/167.38 oz
- Competitive global market pricing.
- High-quality staining results.
- All reagents are produced and synthesized by our own technicians.



1. Wright-Giemsa
2. Buffer

REAGENT VM-100P-K



- Auto and manual use.
- Wide selection of volumetric choices available.
- 8.45/16.91/33.81/167.38 oz
- Competitive global market pricing.
- High-quality staining results.
- All reagents are produced and synthesized by our own technicians.



1. Hematoxylin
2. OG-6
3. EA-50
4. Bluing solution

SOLUTION SERIES



CLEANING SOLUTION

- Optimal cleaners for SUS/Steel/PET/PC/ABS.
- Advanced solution for durability.
- High resolution with no sludge.
- Line & SMU clean periodically.

NALC SOLUTION

- Sterilization of germs in the sputum and homogenization of the mucus components.
- The mucus component of sputum is removed allowing mycobacteria to be viewed with ease.

COMPARISON

AUTOMATIC vs MANUAL

	MedSchenker™	Manual
Heating Method	By circulating heated air	Direct heating by burner (Risk of samples overheating)
Risk of exposure to the reagent	No risk of exposure to the reagent by staining samples in the enclosed space of the device	Risk of carcinogen overexposure, specimen, combustion, workplace pollution, direct pathogen exposure
Accuracy of the staining	Higher accuracy from the machine staining	Lower accuracy from the manual process (human errors)

PRODUCT COMPARISON (MedSchenker™ vs Competitors)

	MedSchenker™	Competitors
Processing Capacity per cycle	20 slides (basic) or 40 slides (option)	12 slides (basic) or 30 slides (option)
Reagents applied method	Injection	Spray
Reagent amount per cycle	Targeted samples only	Full cycle only
Cleaning System (Nozzle, Valve, etc)	Automatic	Manual
Available staining methods	AFB, GRAM, H&E, PAP, DNA Hematology, MALARIA	Hematology
Staining time	1 slide = 5-10 minutes 40 slides = 30 minutes	1 slide = 10-15 minutes 30 slides = 30 minutes
SMU	Horizontal type	Vertical type

FUNCTION

- **Slide mount unit capacity:** 1 to 20 or 1 to 40 slides, depending on SMU
- **Pre-defined temperature:** Air-heating system with real-time temperature monitoring (140 ~ 158°F)
- **Staining cycle:** Fixing-Primary staining- Decolorizing-Background staining-Drying
- **Rotation speed [rpm]:** 3 rpm ~ 120 rpm (±10%)
- **Basic functions:** Staining, automatic cleaning (SMU, tubes, pumps, valves), drying, slides quantity setting, injection setting (auto, manual), injection volume setting, stopping.
- **Power requirement:** Free Voltage 90 ~ 240V ac, 50 ~ 60 Hz / Run 50W (Heating: 950W)
- **Dimensions / Weight :** W x D x H = 507 mm x 554 mm x 274 mm (19.9" x 21.8" x 10.8") / 23 kg (50.7 lb)
- **Reagent consumption:** 0.02 oz ~ 0.06 oz / slides
- **Single cycle stain time:** 5 min ~ 15 min / varies with waiting time and slide quantity
- **SMU (Slide Mount System):** SMU I, SMU II (Option)

REAGENT

Staining Method	Reagent	Reagent consumption amount per slide (oz)
Ziehl-Neelsen	▪ Carbol fuchsin ▪ Decolorizer ▪ Methylene blue	0.034 0.034 0.034
Fluorochrome	▪ Auramine rhodamine ▪ Decolorizer ▪ Pot. permanganate	0.034 0.034 0.034
GRAM	▪ Crystal violet ▪ Gram iodine ▪ Acetone alcohol ▪ Safranin	0.034 0.034 0.034 0.034
Hematology	▪ Wright-giemsa ▪ Buffer	0.034 0.034
PAP	▪ Hematoxylin ▪ OG-6 ▪ EA-50 ▪ Bluing solution	0.034 0.034 0.034 0.034
DNA	▪ Giemsa ▪ Buffer	0.034 0.034
H&E	▪ Hematoxylin ▪ Bluing solution ▪ Eosin	0.034 0.034 0.034
Malaria	▪ Giemsa ▪ Buffer	0.044 0.084

ROTOR (SMU and Stepping motor)

SMU (Slide Mount Unit)		Stepping Motor	
Dimension (Diameter x height)	37.0 cm x 1.3 cm (14.6" x 0.5")	Dimension (Diameter x height)	6.0 cm x 8.0 cm (2.4" x 3.1")
Weight	0.3 kg (0.7 lb)	Weight	0.8 kg (1.7 lb)
Processing capacity	Maximum 40 slides		



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