



A new era of analyzer is upon us...

GENESIS™

**A Multi Sample Walk-Away System
to Revolutionize your Lab**

Featuring Dual Laser and Impedance Technology

20 uL Blood Sample

2 Minute Cycle Time

True 27 Parameter System

Over 50 Species on Board

6 Part Diff # & % *

NRBC # & %

Retic # & %

No Maintenance / Self-Cleaning

**Fully Automated: Mix and
process up to 5 samples**

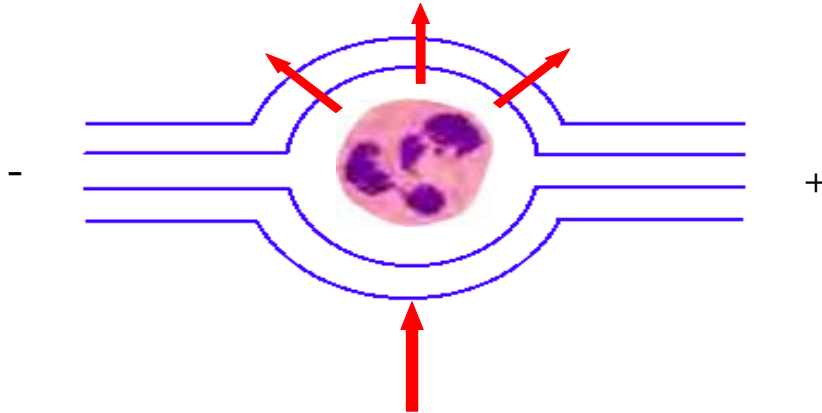


*Canine Only



Made in the U.S.A.

Featuring Dual Laser and Impedance Technology



Introducing GENESIS™, a fully automated multi-sample, multi-species analyzer made in the U.S.A. for in-clinic use. The GENESIS™ uses Smart Software™, which automates all maintenance procedures. Quality control is performed on each blood sample using the combination of Laser, Impedance, and Hb LED Technology. During cellular analysis, impedance, the “Gold Standard” is used for counting and sizing each cell, while “State of the Art” Laser technology is used for intracellular complexity and lobularity measurements.

Over 50 Species on Board...

Puppy	Dog	Aged Dog
Kitten	Cat	Aged Cat
Foal	Horse	Aged Horse
Sheep	Cow	Pig
Elk	Goat	Deer
Camel	Llama	Alpaca
Rabbit	Ferret	Fish
Hedgehog	Hamster	Raccoon
Woodchuck	Opossum	Skunk
PS Mouse	Mouse	CD1 Mouse
SD Rat	Rat	LE Rat
Baboon	Monkey	Chimp
Leopard	Tiger	Lion
Gorilla	Buffalo	Elephant
Aoudad	Zebra	Giraffe
Whale	Manatee	Dolphin
Reptile	Seal	Bird
Fox	G. Pig	Coatimundi
Joint Fluid	Abdominal Fluid	Other

IN-CLINIC SOLUTIONS

III American Way - 178 Christian Street
Oxford, CT 06478 - U.S.A.

Patient: Fluffy
Client ID: John Smith

Species: Dog
Test No: 124

Date: 01/11/12
Time: 17:12:50

GENESIS™

HEMATOLOGY

WHITE BLOOD CELLS:

WBC (K/μL)	13.24	6.0 - 17.0
NE (K/μL)	10.07	3.0 - 11.8
LY (K/μL)	1.51	1.0 - 4.8
MO (K/μL)	0.07 L	0.2 - 2.0
EO (K/μL)	1.57 H	0.1 - 1.3
BA (K/μL)	0.02	0.0 - 0.5
NRBC (K/μL)		
NE (%)	76.06	60.0 - 80.0
LY (%)	11.38 L	12.0 - 30.0
MO (%)	0.55 L	3.0 - 14.0
EO (%)	11.88 H	2.0 - 10.0
BA (%)	0.12	0.0 - 2.5
NRBC		

Mild
Mild

_____	NORMAL	_____
_____	NORMAL	_____
_____	NORMAL	_____
_ LOW _____		_____
_____		_____ HIGH _____
_____	NORMAL	_____
_____	NORMAL	_____

RED BLOOD CELLS:

HCT (%)	43.5	37.0 - 55.0
RBC (M/μL)	6.29	5.50 - 8.50
Hb (g/dL)	15.8	12.0 - 18.0
MCV (fL)	69.1	60.0 - 74.0
MCH (pg)	25.1 H	19.5 - 24.5
MCHC (g/dL)	36.3 H	31.0 - 36.0
RDW (%)	17.7	12.0 - 18.0
RSD (fL)	12.2	
Retics (K/μL)	87.5 H	
Retics (%)	1.46 H	

Mild
Mild

_____	NORMAL	_____
_____	NORMAL	_____
_____	NORMAL	_____
_____	NORMAL	_____
_____		_____ HIGH _____
_____		_____ HIGH _____
_____	NORMAL	_____
_____		_____ HIGH _____
_____		_____ HIGH _____

PLATELETS:

PLT (K/μL)	326.	200. - 500.
PCT (%)	0.306	
MPV (fL)	9.4	5.0 - 15.0
PDW (%)	21.4	

_____	NORMAL	_____
_____		_____
_____	NORMAL	_____
_____		_____

Integrates With Most Practice Management Software Systems

“Invest in the U.S.A. Buy American Products”



GENESIS™ System Specifications

Performance Specifications

Methods and Technologies:

Laser Light Scatter
Focused Flow Impedance

Parameters

White Blood Cells:

WBC

NE # NE %

LY # LY %

MO # MO %

EO # EO %

BA # BA %

Red Blood Cells:

RBC Retics # *

Hb Retics % *

HCT RDW

MCV RSD

MCH NRBC # *

MCHC NRBC % *

Platelets:

PLT PDW

MPV PCT

Printed WBC, RBC, PLT Cytograms

Sample Analysis Characteristics

Whole blood 20 uL

Onboard diluent dispense

Automatic Probewipe

Patient ID

Single button operation

Throughput

30 samples/hour

Carryover

High to low carryover is less than or equal to 2%

User Interface

Touch keypad

Single screen display of results

One button sample aspiration

Linearity

Parameter	Linearity Range	Difference <small>(whichever is greater)</small>
WBC	0.0-220.0 x 10 ³ cells/uL	± 3.0 or 5.0%
RBC	0.0-20.00 x 10 ⁶ cells/uL	± 0.05 or 5.0%
Hb	0.0-34.0 g/dL	± 0.2 or 3.00%
PLT	0.0-5000 x 10 ³ cells/uL	± 10 or 10.0%

Precision

Parameter	Range	%CV
WBC	6.0-15.0 x 10 ³ cells/uL	≤ 3.0
RBC	3.00-6.00 x 10 ⁶ cells/uL	≤ 3.0
Hb	10.0-18.0 g/dL	≤ 2.0
MCV	50.0- 70.0 fL	≤ 3.0
PLT	200-500 x 10 ³ cells/uL	≤ 7.0
MPV	5.0-20.0 fL	≤ 3.0
RDW	12.0-15.0 %	≤ 3.0

Background Counts

Parameter	Units	Count
WBC	x 10 ³ cells/uL	≤ 0.4
RBC	x 10 ⁶ cells/uL	≤ 0.04
Hb	g/dL	≤ 0.2
PLT	x 10 ³ cells/uL	≤ 20

Host Communication

RS232 port

Dimensions/Weight

Height: 29 cm (11 1/2 inches)

Width: 30 cm (12 inches)

Depth: 41 cm (16 1/4 inches)

Weight: 12 kg (30 lb)

Power Input

95-132 vAC / 180-264 vAC
47-63 Hz

Power Consumption

Less than 60 W

Species

Over 50 Species available



Eco Friendly System

The VET-SET™ 2020 multispecies hematology eco friendly system is designed specifically for use on the GENESIS™ Veterinary Hematology System. The VET-SET™ 2020 reagent kits are manufactured by Oxford Science with the highest quality standards.

* Certain Species Only

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