



HT Morph Software Option

Version 1.0 *Research use only. Not for use in human diagnostic procedures.*

Data Input

Subject: Subject ID
Species
Remarks
Slide: Slide ID
Stain Type
Image Set: Image Set ID
Custom: User-defined Custom Data Fields

Optics Setup

Illumination: Interactive illumination setting
Real-time feedback
Objective: Administrator access only
Scale calibration using micrometer
Calibrated value saved for each objective
Unlimited objective storage
Camera: Administrator access only
Camera Type
Gain
Exposure

Classification Rules

Saved Setups: Unlimited
Rule Parameters: Nominal Head Size
Nominal Tail Length
Head
Major Axis: Min/Max (μm) for Normal & Abnormal
Minor Axis: Min/Max (μm) for Normal & Abnormal
Elongation: Min/Max (%) for Normal & Abnormal
Area: Min/Max (μm^2) for Normal & Abnormal
Perimeter: Min/Max (μm) for Normal & Abnormal
Acrosome: Min/Max (%) for Normal & Abnormal
Tail
Minimum Length (μm)
Bend Rate (degrees/ μm)
Coil Angle (degrees)
Border Limit Length (μm)
Cytoplasmic Droplets
Proximal and Distal
Classify as Normal or Abnormal
Proximal Distance / Distal Distance (μm)

Nominal Head Length: 9.0 μm
☒ Nominal Tail Length: 20.0 μm

Head Morphology

	Lower Limit	Normal	Abnormal	Rejected	
<input checked="" type="checkbox"/> Major Axis	6.0	6.5	11.0	11.5	μm
<input checked="" type="checkbox"/> Minor Axis	2.0	2.5	6.0	7.0	μm
<input checked="" type="checkbox"/> Elongation	25	33	60	75	%
<input checked="" type="checkbox"/> Area	9.4	13.0	48.0	54.0	μm^2
<input checked="" type="checkbox"/> Perimeter	13.0	14.0	26.0	28.0	μm
<input checked="" type="checkbox"/> Acrosome	25	26	70	90	%

Tail Morphology

☒ Min. Length: 10.0 μm
☒ Bend Limit: 5.0 deg/ μm
☒ Coil Angle: 180.0 deg
Border Limit Length: 5.0 μm

Cytoplasmic Droplets

☒ Classify Proximal Droplets as: ☐ Normal ☒ Abnormal
Proximal Distance: 5.0 μm
☒ Classify Distal Droplets as: ☐ Normal ☒ Abnormal
Distal Distance: 15.0 μm

Preferences

Morphology: Maximum Cells in Analysis
Show Unidentified Objects (enable/disable)
IVOS: Illumination Step Size
Stain: Unlimited Stain Types may be added
Custom Data: 20 Custom Data Fields available

Analysis

Types: Live
Review (from saved image set)
Stage Control: IVOS II Only
On-screen Jog buttons
Stage position indicator showing analyzed fields and visited fields.

Security

HT User Groups: Administrative or Basic user
Password Security: Windows-based Users
Unlimited User IDs and passwords
Setup Access: Certain settings restricted to Administrator users only

Analysis Results

Results shown: Selected Cell
Selected Field
Cumulative analysis
Classification: Normal
Abnormal
Rejected
Head: Major Axis
Minor Axis
Elongation
Area
Perimeter
Acrosome
Tail: Length
Bend Rate
Coil Angle
Cytoplasmic Droplets: Proximal
Distal



Video Playback

Full Field: Field by Field playback
Analysis results for selected field
Turn On/Off Graphic Overlay
Individual Cell: Cell by Cell Viewing
Zoomed Cell Image
Turn On / Off Cell Overlays
Change or Reset Classification
Thumbnails: Display of captured images
Delete fields from analysis

Reports

Custom Design
Save & View
Export to CSV

Image Storage

Automatically saves captured images to selected Specimen/Slide/Image Set folder

Quality Control

Illumination Check: Quick view to confirm illumination and focus
Illumination Status: Good / Too Bright / Too Dark
Video Playback: Color-coded labeling of normal, abnormal or rejected cells
User Override: Ability to change classification

Specifications subject to change without notice