

ISLET CELL COUNTER V3

QUICK REFERENCE GUIDE

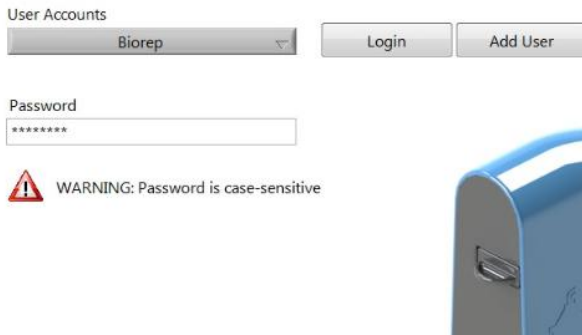


This guide will help you get started with your new, third generation automated Islet Cell Counter (ICC3). For inquiries, assistance, or the full user manual, please visit www.biorep.com

GET WHAT YOU NEED

- ICC3 Vision System and Laptop
- Network and power cables
- ICC-DISH
- Dithizone (optional)

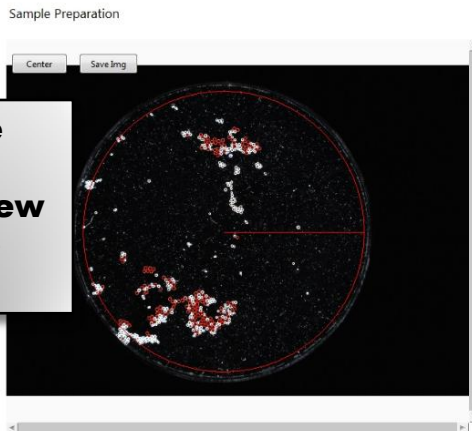
BOOT UP



1. Plug the ICC Vision System and Laptop to a power outlet.
2. Connect the Vision system to the Laptop via the Network cable.
3. Boot up the computer and turn on the Vision system.
4. Double click on the ICC3 Icon on the Desktop.
5. Log in or create a user account

FOLLOW THE WIZARD

A live image feed allows you to preview your sample and ROI



- Stained?
1. Pipette 100 μ L of islet suspension into ICC Dish
 2. Pipette 250 μ L of DTZ in the ICC Dish
 3. Carefully level or gently agitate ICC-dish to achieve an even distribution of the sample over fluid coverage
 4. Make sure there are no air bubbles that tissue is as evenly spread as possible
 5. Place the ICC Dish in the System

Prepare: The wizard guides you step by step through the proper preparation of the sample



Select stained or unstained and follow instructions

Back Next

Donor

Donor Unos #
1234

Species
Human

Height (m)
1.8

BMI
0.0

Age (yrs)
50

Cause of Death

Donor Gender
Male

Ethnicity
Hispanic

ABO Blood Group
A+

Cold Ischemia Time
0 hrs 0 min

Organ

Organ ID
1234

Organ Weight (g)
50.0

Preservation Solution
UW

Operator

Enzyme ID
H

User Account
h

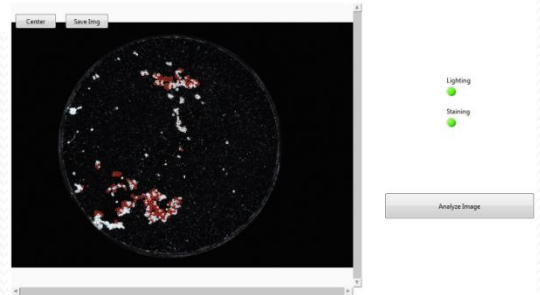
Date
9/25/2013

Time
8:23 AM

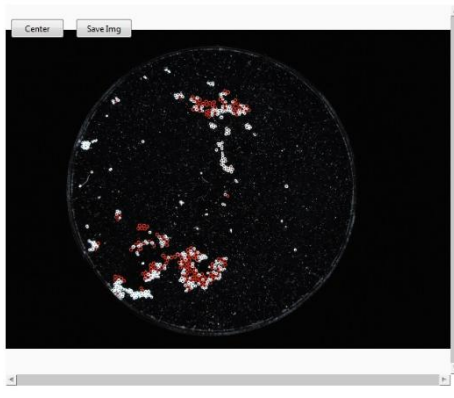
Experiment Type
Research

Info: Fill in your sample information, including sampling volumes to calculate dilution factor

Analyze: Automatically detect staining uptake and stability



Counting



Dilution Factor
1000

of Particles
122

IEQ
125096

Area (mm²)
1.90

Purity (%)
16.0

B-Factor
1.3

IEQ dev (%)
7.7

Area dev (%)
0.3

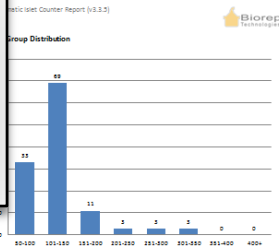
Purity dev (%)
0.3

New Sample

Beta IEQ Results		
bIEQ	pIEQ	Area IEQ
125887	125768	107753

Count: Automatically calculate IEQ, purity and other valuable metrics for your sample

Report: A word document is automatically generated so you can forget about the paperwork.



Automatic Islet Counter Report (v.8.3.5)

Date: 10/3/2013
Time: 8:16 AM

User ID: Biorep

Count Info
sample Information: - No Selection -
sample ID:
purity Stage / Layer:
sample Volume (µL): 100.00
total Volume (mL): 1000.00
Dilution Factor: 10000.00

Count Results
islet Equivalents (IEQ): 128655 +/- 2.9 %
particle Count (PN): 122
islet Area Cover (IAC)(mm²): 1.72 +/- 0.1 %
purity (%): 22.0 % +/- 0.1 %
size Index (B-factor): 1.3

Ultimate Quantifications (Bets)
Area Based IEQ (aIEQ): 97559
particle Based IEQ (pIEQ): 125122
Modified normalization IEQ (bIEQ): 11791.7

Notes

