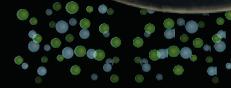




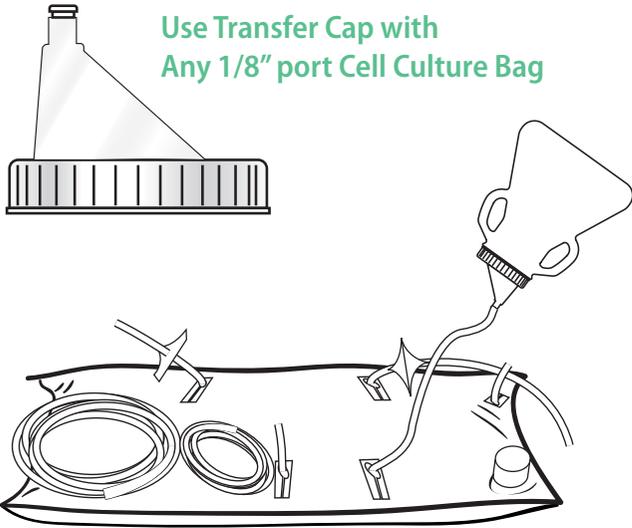
## Optimum Growth™

Pat. US #7,709,251 #7,998,730 UK #2433255 PART # 931116

# 5L



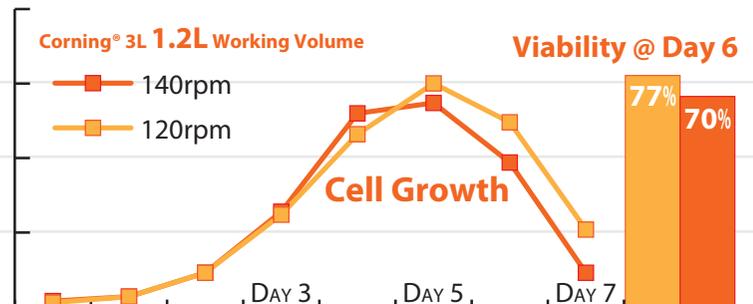
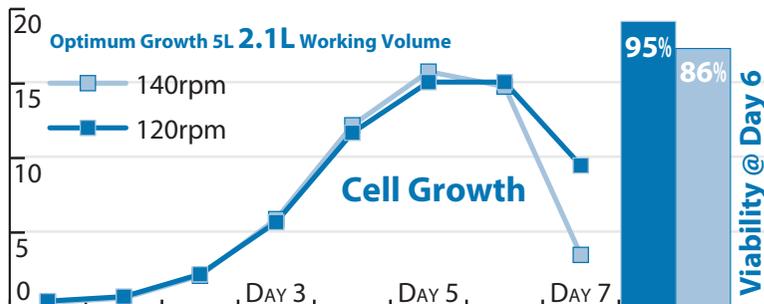
Use Transfer Cap with  
Any 1/8" port Cell Culture Bag



### Key Features

- Same Footprint as Standard 3L Fernbach Flask
- Suggested Working Volume: 2.5L (Double Capacity)
- Less Foaming than 3L Disposable Fernbach
- Individually Packaged and Sterilized
- Comfortable Handles
- Transfer Cap connects directly to Wave Bags™ & other bag manufacturers with 1/8" port
- Baffles designed for High Aeration & Low Shear
- Mammalian & Insect Cell Growth
- .2µM Vented Cap

### CHO Cell Comparison



# Optimum Growth™ Flask

Patent US #7,709,251 #7,998,730 UK #2433255

## CELL LINES

**CHO**

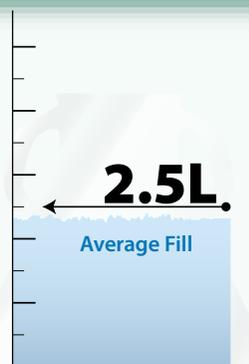
**HEK293**

**INSECT**

**SF-9 High Five™**

**SF-21 T.ni**

**HYBRIDOMA**



## Optimum Growth

Thomson's Optimum Growth™ flasks (patented) give great growth with space saving capability. By using Optimum Growth™ (patented) flasks users are able to grow 2.5L of Cell Culture versus the previous max capacity of 1L.

The Optimum Growth™ flasks have replaced expensive, disposable, Fernbach flasks and also small Wave Bags™ (5L & 10L). The Optimum Growth™ flasks also give high viability cultures with a great use of space. The Transfer Cap (patented) allows for one to inoculate larger cultures directly from the Optimum Growth™ flasks.

Please see our data for

Optimum Growth™ flasks (patented)

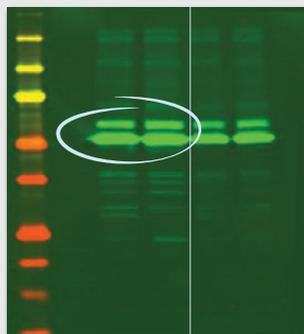
CHO, HEK 293, Insect Cell Lines, and Hybridoma.

### Final Product

After 4 Step Purification

Optimum Growth™

Wave Bag™



Membrane Protein from Sf9 Cells

Thomson Instrument Company is not affiliated with GE® or its Wave Bag™. Wave Bag™ comparison may vary with media used, and biological molecule being grown. Results were not done by Thomson Instrument Company, and may vary depending on customer.

Sf9 cells in a Optimum Growth™ 5L shake flasks at  $4 \times 10^6$  cells/ml Final Yield of purified sample 34mg/L Shaker Speed 110 RPM

Sf9 cells of 10L in a Wave Bag™ at  $4 \times 10^6$  cells/ml Final Yield of purified sample 22mg/L Shaker Speed 25 RPM

**55%**

Yield Increase\*

\* In this test

**34mg**

**10L**

20L capacity  
10L working volume

( 5L capacity  
2.5L working volume X 4 )



OptimumGrowth

**22mg**

**10L**

20L capacity  
10L working volume



Wave Bag™

## Ordering Information:

Thomson Instrument Company

Toll Free

800 541.4792

Local

760 757.8080

Fax

760 757.9367

Email

folks@htslabs.com

Online

www.htslabs.com

Address

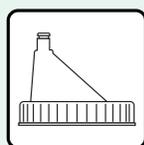
1121 South Cleveland Street  
Oceanside, CA 92054



## Optimum Growth™ Flask

5L Optimum Growth™ Flask w/ .2μM Vented Cap  
Patented

Case Qty: 4  
Part No. 931116



## Transfer Cap

Transfer Cap  
Patented

Case Qty: 1  
Part No. 931596

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