

CCL-61.4<sup>™</sup>

## Description

CHO-K1.Sus[SF] is a suspension and serum-free cell line adapted from the adherent CHO-K1 (ATCC CCL-61) cell line in chemically defined media. This is intended as an ideal host cell line for protein production.

Organism: Cricetulus griseus, hamster, Chinese

hamster **Tissue:** Ovary

Morphology: Rounded

**Growth properties:** Suspension

Cells per vial:  $1.0 \times 10^7$ 

Volume: 1.0 mL

## **Storage Conditions**

**Product format:** Frozen

Storage conditions: Vapor phase of liquid nitrogen

#### Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

### BSL<sub>1</sub>

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories* (*BMBL*), U.S. Department of Health and Human Services. It is your responsibility to



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understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

## Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

#### **Growth Conditions**

Temperature: 37°C

Atmosphere: 92% Air, 8% CO<sub>2</sub>

## **Handling Procedures**

#### **Complete medium:**

The base medium is Millipore Sigma Ex-Cell® (SAFC catalog # 14366C). To make the complete growth medium, add the following component to the base medium:

L-Gluatamine (ATCC 30-2214) to a final concentration of 6 mM.

#### **Handling Procedure:**

To ensure the highest level of viability, thaw the vial and initiate the culture as soon as possible upon receipt. If upon arrival, continued storage of the frozen culture is necessary, it should be stored in liquid nitrogen vapor phase and not at -70° C. Storage at -70°C will result in loss of viability.

- 1. Thaw the vial by gentle agitation in a 37°C water bath. To reduce the possibility of contamination, keep the O-ring and cap out of the water. Thawing should be rapid (approximately 2 minutes).
- 2. Remove the vial from the water bath as soon as the contents are thawed and decontaminate by dipping in or spraying with 70% ethanol. All of the operations from this point on should be carried out under strict aseptic conditions.
- 3. Transfer the vial contents to a centrifuge tube containing 5.0 mL complete culture medium. and spin at approximately 200x g for 5 minutes.
- 4. Resuspend cell pellet in 20 25 mL fresh pre-warmed complete growth medium, and transfer the cell suspension into a vented, Non-baffled, Erlenmeyer Shaker Flask (FisherScientific® Catalog # 431143).
- 5. Incubate the culture at  $37^{\circ}$  C in a suitable shaker incubator with a speed of 130 RPM. A 8% CO<sub>2</sub> in air atmosphere is recommended if using the medium described on this product sheet.
- 6. It is recommended to subculture every 3 to 4 days.

#### **Subculturing procedure:**

Cultures can be maintained by addition of fresh medium and cultures can be established between 1 X  $10^5$  and 1 X  $10^6$ viable cells/mL. Maintain cell density between 1 X  $10^5$  and 3 X  $10^6$  cells/mL.

Incubate cultures at  $37^{\circ}$ C in a suitable shaker incubator with a speed of 130 RPM. A 8% CO<sub>2</sub> in air atmosphere is recommended if using the medium described on this product sheet.

Medium Renewal: Every 3 to 4 days.

Reagents for cryopreservation: DMSO: 4-X

**Cryopreservation:** Complete Culture Medium + 5% DMSO (ATCC 4-X)

### **Material Citation**



If use of this material results in a scientific publication, please cite the material in the following manner: CHO-K1.Sus[SF] (ATCC CCL-61.4)

#### References

References and other information relating to this material are available at www.atcc.org.

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