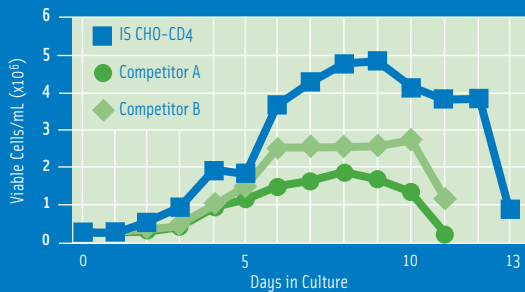




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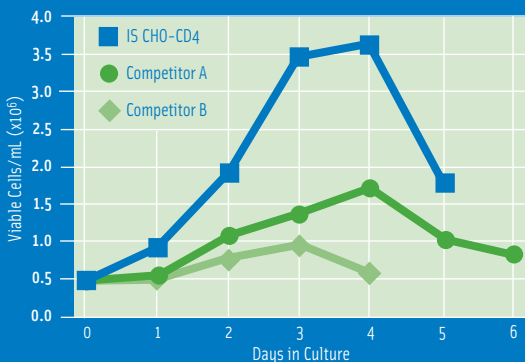
# IS CHO-CD4™ Chemically-Defined Medium

Figure 1. CHO DG44-Derived Cell Line



Figures 1. Parallel 30 mL cultures were grown in 125 mL shaker flasks at 160 RPM in a humidified, 5% CO<sub>2</sub>, 37° C incubator. Recombinant CHO cells (DG44) were seeded at an initial density of 2 x 10<sup>5</sup> cells/mL from a common culture.

Figure 2. CHO DXB11-Derived Cell Line



Figures 2. Parallel 30 mL cultures were grown in 125 mL shaker flasks at 160 RPM in a humidified, 5% CO<sub>2</sub>, 37° C incubator. Recombinant CHO cells (DXB11) were seeded at an initial density of 2 x 10<sup>5</sup> cells/mL from a common culture.

IS CHO-CD4™ is a chemically-defined cell culture medium developed for high-density culture of Chinese Hamster Ovary (CHO) cells.

This medium is free of L-Glutamine, Hypoxanthine and Thymidine to allow for use in a variety of applications. IS CHO-CD4 has been developed with components which are defined and of non-animal origin. This medium is also characterized for its ability to meet the different nutritional requirements of commonly used CHO clones.

## Performance

IS CHO-CD4 supports robust growth and productivity of multiple CHO clones. Data demonstrates superior performance with respect to high-density cell culture and recombinant protein expression when compared with two competitive products (Figures 1 & 2).

## Features and Benefits

- Produced with Irvine Scientific's WFI Grade Water.
- Components are chemically defined and non-animal in origin.
- Useful with dhfr selection system and GS selection system: does not contain L-Glutamine, Hypoxanthine or Thymidine.
- Supports high recombinant protein production.
- IS CHO-CD4 has a shelf life of one (1) year when stored at 2-8°C and protected from light.
- Available as a liquid in packages of 1 L and as a powder in 10 L packages.
- Custom configurations are available.

**Catalog Number 91100: IS CHO-CD4 Chemically-Defined Medium - Liquid**  
**Catalog Number 94104: IS CHO-CD4 Chemically-Defined Medium - Powder**

## Adaptation

IS CHO-CD4 allows complete adaptation from serum-supplemented and serum free media. Please use Adaptation Protocol for IS CHO-CD as a reference.

*This medium has been optimized for the specific cells we have used. Your cells and application may differ to varying degrees. This medium may be tailored to meet the specific requirements of individual customers. Whether your efforts are focused on optimizing yields, improving product quality or addressing regulatory concerns, Irvine Scientific has the answers to your specific requirements.*

## The Final Conclusion

IS CHO-CD4 addresses customer concerns relating to consistency, regulatory, and downstream process issues because it has been developed with components that are defined and of non-animal origin. IS CHO-CD4 allows complete adaptation from serum-free media, and demonstrates lot-to-lot consistency.

## Partnering

IS CHO-CD4 may be tailored to meet the specific requirements of individual customers. Whether your efforts are focused on optimizing yields, improving product quality or addressing regulatory concerns, Irvine Scientific has the experience necessary to achieve solutions to your specific requirements.

For more information on any of our Industrial Cell Culture products, call 1 800 437 5706 and request that your Territory Manager contact you. Visit our website at [www.irvinesci.com](http://www.irvinesci.com) or e-mail us at [nucleus@irvinesci.com](mailto:nucleus@irvinesci.com).

Note: Always refer to product insert for complete instructions for use.

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