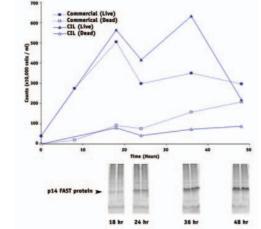
# Insect Cell Media - BioExpress® 2000 New Results from CIL

## **Infected Cell Growth**

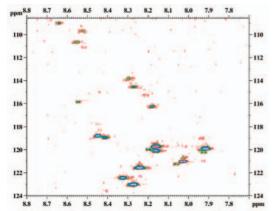
Commercial media vs. CIL BioExpress 2000 (Unlabeled)



SF-21 cells were grown in standard SF9 media to optimum cell density, spun down and resuspended in baculovirus, then topped off with standard SF9 media. The cells were incubated for 1 hour, spun down again and excess supernatant removed. The cells were then resuspended in 500 ml of CIL BioExpress 2000 either Unlabeled; selectively labeled with <sup>15</sup>N Val, <sup>15</sup>N Leu and <sup>15</sup>N Ser or uniformly labeled with <sup>15</sup>N and grown over 48 hours. There was less than usual cell death as compared to commercial SF9 media and a higher efficiency of infection.

### <sup>1</sup>H-<sup>15</sup>N HSQC of P14 FAST Protein Labeled with <sup>15</sup>N-Val; <sup>15</sup>N-Ser and <sup>15</sup>N-Leu

Labeled with <sup>15</sup>N-Val; <sup>15</sup>N-Ser and <sup>15</sup>N-Leu using CIL's BioExpress 2000



90%H<sub>2</sub>O/10%D<sub>2</sub>O; 298 K; pH 7; 500 mM Octyl Glucoside; 50mMHEPES; 300mM NaCl

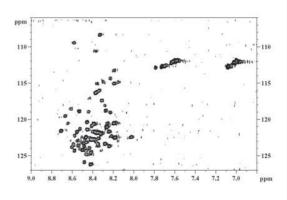
Results obtained by:

Dr. David L. Jakeman and Dr. Ray T. Syvitski, College of Pharmacy and Dr. R. Duncan and Mr. Deniz Top, Department of Microbiology, Dalhousie University, Nova Scotia, Canada

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## <sup>1</sup>H-<sup>15</sup>N HSQC of P14 FAST Protein (U-<sup>15</sup>N)

Produced from CIL's BioExpress 2000 Insect Cell Media

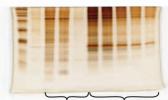


90%H<sub>2</sub>0/10%D<sub>2</sub>0; 318 K; pH 5.5 in Octyl Glucoside

# <sup>15</sup>N Labeled P14 FAST Protein Expression

BioExpress 2000 (15N-Val; 15N-Ser; 15N-Leu) ~16mg/500 mL media





Marker Pellet Supernatant Ni\*2 Talon Elution Fractions post rocking

The cells were spun down and the pellet frozen at -70°C. The protein was purified using a standard protein purification protocol, first by Ni<sup>+2</sup> talon resin followed by ion exchange chromatography. Total p14 protein was calculated to be 16.3 mg from a 500 ml preparation as measured by a Lowry assay using BSA as standards.

# CII

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