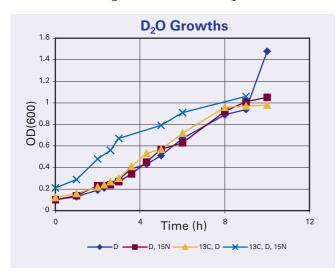
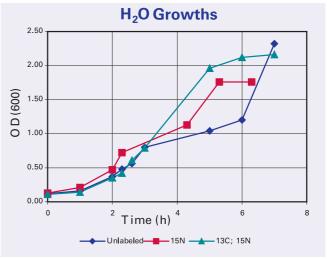
## BioExpress<sup>®</sup> 1000

## Growth, Protein Expression and Isotope Incorporation Study

## Bio-Express® Growth Curves – *E. coli* BL21 with pFAF2 plasmid (pQE derivative; T5 promoter)

- All cultures were inoculated with a preculture grown on the same medium at 37°C.
- Induction with 1 mM IPTG began at an OD between 0.6 and 0.8 and the temperature was decreased to 30°C for further 4 hours.





- After cultivation the cells were collected, disintegrated and the His tagged target protein was purified via a MC column.
- The protein was characterized by SDS page, spectroscopic determination at 280nm and MALDI.

## Protein Expression and Isotope Incorporation Data His-tagged human FAF domain, 125 Amino Acid Residues, 14257 D Molecular Weight

Bio-Express® 1000	Protein Mass (MALDI MS)	% Incorporation	OD @ 4 h	Protein Yield (5 mL)	Calc, Yield (mg/L)	Purified Protein Soluble Fraction
Unlabeled	14255	0	2.3	1	200	
<sup>15</sup> N Labeled	14429	97	1.8	1.2	240	-
<sup>13</sup> C, <sup>15</sup> N Labeled	15042	96.5	2.2	0.7	140	control of the
D Labeled	15018	98	1.5	0.3	60	.000000000000
¹⁵N, D Labeled	15147	98	1	0.5	100	
<sup>13</sup> C, D Labeled	15550	96.5	1	0.3	60	mus I
<sup>13</sup> C, <sup>15</sup> N, D Labeled	15753	98	1	0.6	120	
						111 1 11
						97 66 45 31 21 14 kDa

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Protein
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Incorporation
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