

## Hyper Broth™

Hyper Broth™ is a proprietary medium formulation developed by AthenaES™ for improved expression of recombinant proteins in *E. coli*. The medium is a complex, rich formulation which supplies amino acids, vitamins, and glucose at high levels. It is made without the use of animal-derived raw materials and is *APF Certified*. This medium yields the highest level of biomass of all AthenaES™ media. The medium is buffered at pH 7.3±0.2 and has the highest buffering capacity of the Expression Media, which permits high glucose levels. For expression of recombinant proteins, induction should be done at cell densities three times that of LB Broth. Cell yields are typically 4 to 5 times that of LB Broth in shake flask cultures depending on the characteristics of the strain. Plasmid copy numbers are higher than for LB, which can facilitate protein expression. This medium is suitable as the base for fermentation cultures and is excellent for feed-batch applications. Biomass yields will depend on the process and the strain employed. Hyper Broth™ powder is supplied with a separate Glucose Nutrient Mix.

Hyper Broth™ .....	Powder.....	0107.....	500 g
.....	Liquid, Ready-to-Use.....	0118.....	5 x 500 ml