ISOTEC® Stable Isotopes

ISOYeast Growth Media for Enhanced Protein Expression

- Enhanced expression of eukaryotic proteins in yeast, including membrane proteins, with appropriate post-translational modifications
- Capable of achieving significantly high OD_{600} values for cell densities (OD=10)
- Cleaner expression and easy subsequent purification of secreted proteins compared to rich media
- Does not contain endogenous biological macromolecular components
- Suitable for both fermenter and shake-flask formats

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
<th>Isotopic Purity</th>
</tr>
</thead>
<tbody>
<tr>
<td>772712</td>
<td>ISOYeast – 13C,15N Growth Media</td>
<td>98 atom % 13C</td>
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<tr>
<td></td>
<td></td>
<td>98 atom % 15N</td>
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<td>ISOYeast – 15N Growth Media</td>
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<td>772690</td>
<td>ISOYeast – Unlabeled Growth Media</td>
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</tbody>
</table>

Please inquire about ISOYeast for:
- Custom OD concentrations
- Alternative labeling patterns

ISOYEC Stable Isotopes Technical Service
Phone (800) 448-9760 (US and Canada)
(937) 859-1808
Email isosales@sial.com

ISOYeast vs. Commercially Available YPD Rich Media

Figure 1. SDS-PAGE of Interleukin (IL-8 lanes 2-3), Human Serum Albumin (HSA, lanes 5-6) and human glycoprotein CD14 (lanes 7-8). Proteins grown in 50mL shake-flask cultures. Data provided by Dr. Nitin Jain, University of Tennessee.

ISOYeast Growth Compares with YPD Rich Media

Figure 2. Growth curves for ETR1 membrane protein expressed in wild-type Pichia pastoris X-33 cells using ISOYeast (red curve) and YPD medium (blue curve).