S. cerevisiae/E. coli YE-type phagemid vectors

77108™

Storage Conditions

Product format: Freeze-dried

Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

BSL 1

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Growth Conditions

Host: *Escherichia coli* DH5alpha

Notes

Restriction digests of the clone give the following sizes (kb): BamHI--5.8; EcoRI--5.8; PstI--4.0, 1.7; PvuII--5.2, 0.54.
- ATCC staff

YE-type shuttle vector encoding the beta-galactosidase alpha peptide, permitting blue-white visual detection. Can be used to produce ssDNA. Contains promoters for in vitro RNA synthesis and priming sites useful for sequencing.
- Gene 110: 119-122, 1992

Contains the REP3 and FRT sequences necessary for high copy propagation in yeast.
- Gene 110: 119-122, 1992

In S. cerevisiae, the copy number is about 20 per haploid cell. In non-selective growth, plasmids are lost through mitotic segregation at rates in the range of 4.4 + or - 1.4% of progeny per doubling.
- Gene 110: 119-122, 1992

The order of the major features in this plasmid is: ori(f1) - lacZ - T7 promoter - MCS (KpnI-SacI) - T3 promoter - lacI - ori(pMB1) - ampR - ori(2 micron) - URA3.
- Gene 110: 119-122, 1992

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: S. cerevisiae/E. coli YE-type phagemid vectors (ATCC 77108)

References

References and other information relating to this material are available at www.atcc.org.

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Revision

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