3050 Spruce Street
Saint Louis, Missouri 63103 USA
Telephone 800-325-5832 • (314) 771-5765
Fax (314) 286-7828
email: techserv@sial.com
sigma-aldrich.com

ProductInformation

Glass beads, acid-washed

Product Number **G 8772**
Store at Room Temperature

Product Description
Density: 2.5 g/ml
Refractive index: 1.51-1.52
Compressive strength (psi average): 36,000
Poisson's Ratio (psi): 0.21
Rigidity Modulus (psi): 4.3×10^6
Young's Modulus (psi): 10×10^6
Hardness (Knoop 100 g load): 515 kg/mm^2
Coefficient of friction (static): 0.9-1.0
Chemical composition: soda-lime silica glass
Softening point (dilatometer): 589 °C
Expansion Coefficient (25-300 °C): 85×10^7 per °C
Strain point: 505 °C
Annealing point: 548 °C
Dielectric Constant: 1 Kc 7.6 D.C.
Volume Resistivity (Ohm-cm): 25 °C 6.5×10^{12}
Lost tangent: 1 Kc 2.0% 100 Kc 1.0%.

A bead size of 0.5 mm is recommended for use in breaking open yeast cells. A protocol for the use of 0.45 to 0.55 mm acid-washed glass beads from Sigma for cell disruption of yeast cells has been published.[1,2]

Precautions and Disclaimer
For Laboratory Use Only. Not for drug, household or other uses.

References
1. Ausbel, F. M., et al., Short Protocols in Molecular Biology, Greene Pub. Associates and Wiley-Interscience (N. Y. 1995), 3rd ed., 13-51.
2. Jazwinski, S. M., Preparation of Extracts from Yeast. Methods in Enzymology, **182**, 163 (1990).

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