

# VitraPOR® Porous Glass Beads



ROBU® has developed a new carrier substrate for cell cultivation from the proven family of VitraPOR® sintered filter products.

Pure, binder-free borosilicate glass 3.3 is manufactured by our proprietary process to form 4 mm diameter substrates with a consistent pore size of 40 - 100 micrometers.

The proprietary process uses no corrosives and produces a porous structure with smooth, yet large surface areas. The glass is completely bio-compatible and its electrical charge (Zeta-Potential) helps to stimulate cell growth. As a result, you can yield more than 70% viable cells from your cultivation process - far superior to conventional PMMA and PVC carriers.



SEM - image of VitraPOR® sintered carrier material showing open pores with large, rounded surface areas.



ROBU® can fabricate sintered filters in almost any shape and size.

We work closely with you to develop solutions that meet your special needs. Give us your biggest challenge!

- Pure, USP-class I borosilicate glass 3.3
- Consistent pore sizes from 40 - 100  $\mu\text{m}$
- Uniform beads with 4 mm diameter
- Large, yet smooth adherent surfaces
- Chemical-free, proprietary production process
- High electrical charge (Zeta-Potential)
- Open porosity and large internal surface
- High vitality rates and superior bio-compatibility
- Efficient nutrient supply by capillary effect

## ROBU®



ROBU GLASFILTER-GERAETE GMBH  
Schuetzenstr.13, D - 57644 Hattert  
Tel.: ..+49 - 2662 / 8004 - 0  
Fax.: ..+49 - 2662 / 8004 - 40  
Germany  
[www.robuglas.com](http://www.robuglas.com)

