

Acronyms and symbol

1393 bioactive glass

Cobalt oxide (CoO) (Merck, India)

Zirconium oxide (ZrO₂) (Merck, India)

Titanium oxide (TiO₂) (Merck, India)

Calcium carbonate (CaCO₃) (Merck, India)

Magnesium carbonate (MgCO₃) (Merck, India)

Sodium carbonate (Na₂CO₃) (Merck, India)

Potassium carbonate (K₂CO₃) (Merck, India)

Ammonium dihydrogen orthophosphate (NH₄H₂PO₄) (Merck, India)

NaCl, KCl, NaHCO₃, MgCl₂.6H₂O, CaCl₂ and KH₂PO₄ (Merck, India)

Universal bio microprocessor pH meter made by India (New Delhi)

X-ray diffractometer

Fourier transform infrared spectrometer, (VARIAN scimitar 1000, USA)

Fourier transform infrared spectrometer, (Bruker Tensor 27 FTIR, Germany)

Instron Universal Testing Machine (AGS 10kND, SHIMADZU)

pH-EC meter (model-1611, ESICO-USA)

Olympus instrument (M-45, USA) made by USA

Phosphate saline buffer (Himedia, Mumbai, India)

SiO₂- Silicon dioxide