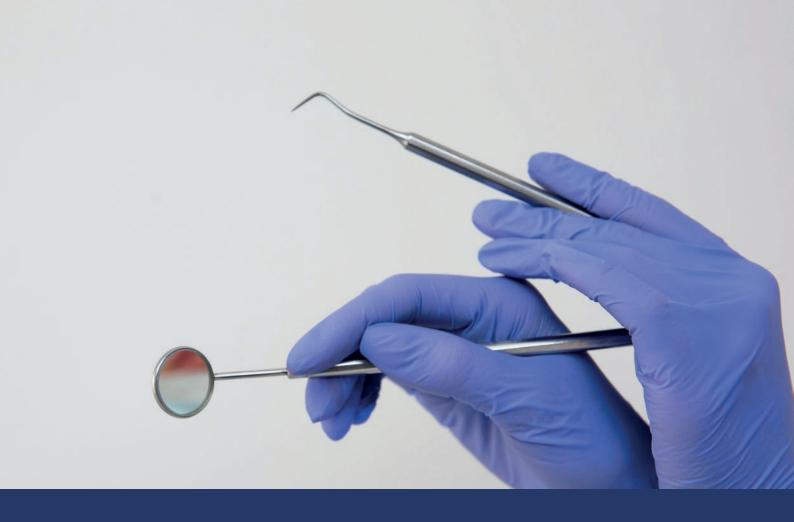
Bossklein[®]





Instrument Disinfectant and Cleaner



Testing matters

Bossklein IDactiv Instrument
Disinfectant and Cleaner is a
concentrated solution used for
the disinfection and cleaning of
instruments and tools prior to
terminal sterilisation. Designed for
use inside an instrument or ultrasonic
bath, using the method of immersion.

This test report presents the evaluation of Bossklein IDactiv, for its material compatibility with a range of commonly used, high quality dental instruments from a selection of well known and trusted manufacturers.

The objective of this study was to assess the potential effects of the high performance IDactiv solution on various materials and coatings;

including stainless steel, titanium and plastics. Ensuring that repeated exposure does not compromise the integrity, functionality, or longevity of the instruments.

The process involved simulated clinical conditions to replicate real-world usage, focusing on material degradation, discolouration, corrosion, and structural changes.

The findings of this study will provide both users and suppliers valuable insights into the suitability of Bossklein IDactiv for routine instrument reprocessing in dental practices. Demonstrated with high resolution photographs before and after repeated exposure.

Materials used for test

Larident 3L Instrument Cleaning Tray (Calcium carbonate filled Polypropylene)

Bossklein IDactiv Instrument Disinfectant and Cleaner.

Batch No: 2408292. Expiry Date: 2027.07

Various dental instruments from manufacturers Parkell, Directa & Kohler

Deionised water





Test method

- 1. Remove the basket from the cleaning tray and evenly spread the instruments in the basket.
- 2. Weigh out 2880g deionised water, add 120g IDactiv to achieve 3L, 4% solution. Pour solution into Instrument Cleaning Tray
- 3. Lower the basket to completely immerse the instruments in the solution and start a timer.
- 4. After 60 minutes soaking, lift the basket from the solution, and shake to remove any excess.
- 5. Place the basket into the sink, and rinse with 1 litre deionised water. Shake the basket to remove excess water and leave on the bench for 60 minutes to dry.
- 6. After 60 minutes, repeat steps 3 to 5, using the same solution for one day.
- 7. Change IDactiv solution daily.

Method was repeated over 9 days, with the instruments soaked for a total of 34 hours.

Instructions for use state use a 2% solution for 15 minutes for bacteria, yeast and enveloped viruses and a 4% solution for 60 minutes to achieve full efficacy. A 4% solution for 60 minutes was used as a higher challenge for instrument compatibility.





Before immersion



After 34 hours immersion

parkell

Comfort Grip™ Universal 30K Insert (DCG30Uni-PF)





Before immersion



After 34 hours immersion



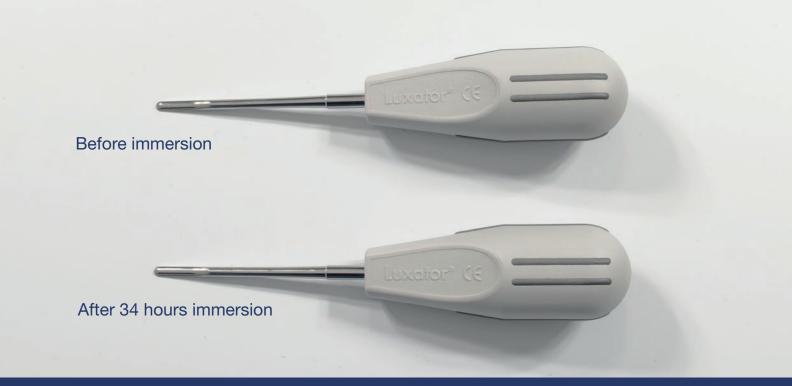




DIRECTA

Luxator® Peritome Extraction Instruments: Stainless steel, polyamide PA6.6. Luxator, 3mm, straight blade, grey (L3S)





DIRECTA

Luxator, 5mm, curved blade, brown (L5C)







Handle for Endo Retractor (7571)





Apicectomy Retractor (7531)





Rubberdam Clamp forceps, Ivory (4184)





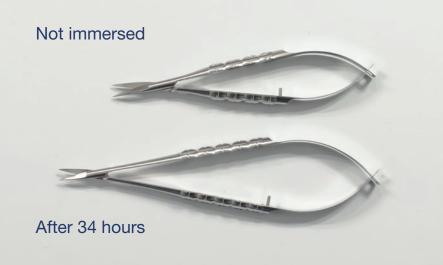
Tensioning Tweezer (7225)





















Micro Scissor, Castroviejo (7678)





TC-needle Holder, Castroviejo Trinovo (7660)





Root-Forceps, Stieglitz (4170)





Needle Holders with TC, Microvascular (4583)





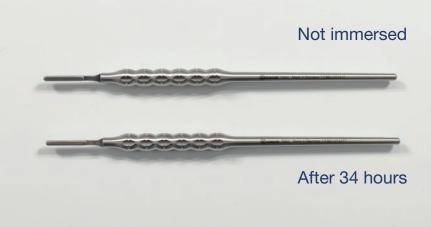
Scalpel Blade Holder, Trinovo (7231)







Holder for Scalpel Blades, Trinovo (7693)







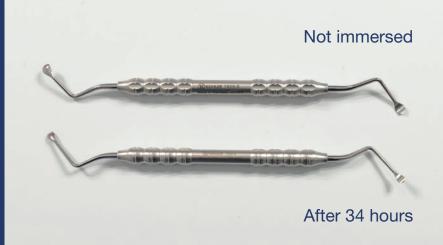
Handle for Micro Scalpel Blades, Trinovo (6789)

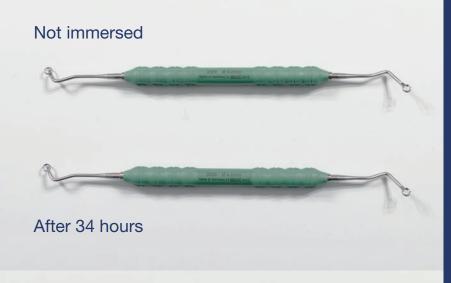




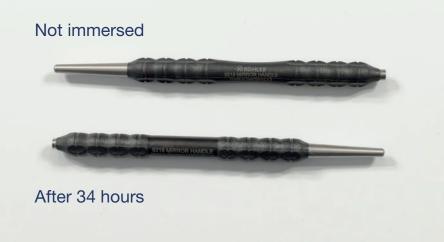


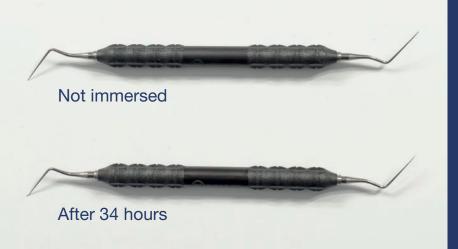
PA-curettes Lucas, Trinovo (7658)















Granulation Tissue Instrument 0.4mm (3306)





Granulation Tissue Instrument 0.2mm (3305)





Mouth Mirror Handle (9218)





Dr Terauchi Guttapercha Removal Instrument, EGPR-U/D, 18 mm, Trinovo (8425)





Plugger 3/4 (100/120), 5-10-15-20 (9208)







Perio Probe CP12/CP15 (9212)







Micro Plugger D2 (9204)



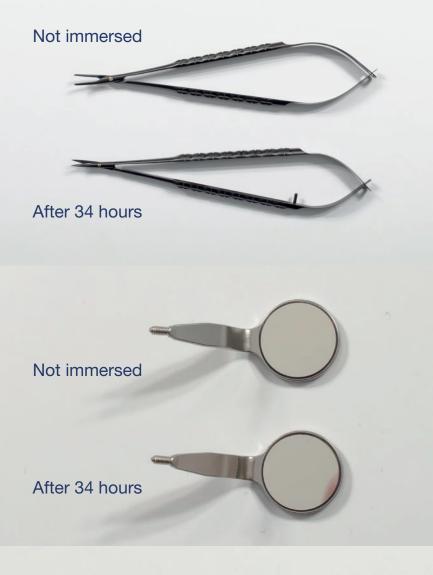


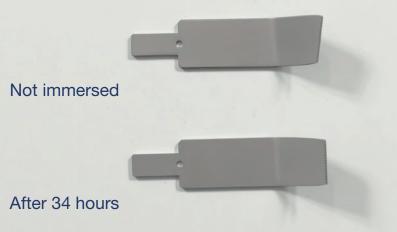


Magicut Scissor, Metzenbaum, 14.5cm (6984)













Tweezers, Perry, 13cm (4075)





Micro Scissors, 17.5cm (8702)





Mouth Mirror, Rhodium (9575)





Retractor Blade KRB2/15 (8468)



Mini Mouth Mirror Rhodium 12mm (8396)



Micro Mirror, Endoblack, 5mm (6413-cc)



Results and conclusion

No signs of incompatibility were observed in any of the instruments after 34 hours of soaking. No discolouration, tarnishing, rusting, fading or cracking was observed.

According to this test the instruments and equipment showed no deterioration or discolouration when repeatedly immersed in Bossklein IDactiv Instrument Disinfectant, when used as recommended by the manufacturer at the highest concentration.

Bossklein IDactiv Instrument Disinfectant is approved for use with instruments and equipment composed of materials listed opposite.

- 455 Stainless steel
- Polyether ether ketone
- Ceramic coated stainless steel
- Teflon
- Diamond-like carbon
- Titanium
- Gold plating
- Titanium nitride
- Polyamide PA6.6
- Tungsten carbide



NO rust



NO discolouration



NO fading



NO cracking

34_h

4%

9

Total Soaking

Concentration