Figure Legends:

Fig 1: Flow diagram illustrating the experimental procedures. AS7 and AS4 are artificial saliva at pH 7 and pH 4 respectively.

Fig. 2 pH of a) TB, b) AS7 and c) AS4 solution at three selected time points, using six different loadings of BAG (0-80%).

Fig. 3. Fluoride release in a) TB, b) AS7 and c) AS4 solutions against square root of time (six hours-six months), using six different loadings of BAG (0-80%).

Fig. 4. The cumulative fluoride of the 80% BAG, released in TB, AS7 and AS4 along the time points of the experiments.

Fig. 5. Cumulative calcium release in AS7, TB and AS4 solutions with 40% and 80% BAG loading.

Fig. 6. Cumulative phosphate release in AS7, TB and AS4 solutions with 40% and 80% BAG loadings.
Composite disks of BAG loading of 0, 25, 40, 50, 60 and 80%.

Total = 540

30 disks of each loading, each disk immersed in 10 ml of Tris Buffer. pH=7.3. n=180

30 disks of each loading, each disk immersed in 10 ml of AS7. pH=7.0. n=180

30 disks of each loading, each disk immersed in 10 ml of AS4. pH=4.0. n=180

Remaining composite disks of each BAG loading were washed and re-immersed in the media until the next time point.

3 composite disks of each BAG loading were removed from each media for measurement of pH, F, Ca and PO₄ at 6, 12 and 24 hours, 3, 7, 14, 30, 60, 90 and 180 days

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