Figure Legend: Figure 1 Tooth, Dentin - Basophilic granules in a male F344/N rat from a chronic study. There are numerous, small basophilic granules within the dentin. Figure 2 Tooth, Dentin - Basophilic granules in a male F344/N rat from a chronic study. There are numerous, small basophilic granules within the dentin.

Comment: Basophilic granules in the dentin (Figure 1, Figure 2) are rarely seen in the NTP studies. They are small, round, basophilic globules that occur in a linear pattern within the dentin layer. They have been seen in the predentin and dentin in F344 rats exposed to sodium fluoride for 2 years. Similar deposits are reported to represent calcium fluoride crystal formation that occurs during decalcification of tooth/bone specimens.

Recommendation: Basophilic granules should be diagnosed and graded whenever present.

References


Tooth, Dentin – Basophilic Granules

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