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Title: *In vitro* degradation of covalently cross-linked arabinoxylan hydrogels by Bifidobacteria

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1 **Highlights**

2 Covalently crosslinked arabinoxylans (AX) gels with different structure were obtained

3 AX gels were biodegradable by mixture of two *Bifidobacterium*

4 Changes in microstructure of AX gels allowed different degradation profiles

5 AX gels could be used as microflora-activated system for colon delivery

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