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products. Ethanol and formate may also be produced.

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which micro-organisms are mixed with incoming foodstuffs by contraction and expansion of the rumen wall and by rumination.

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Vertebrates lack the ability to hydrolyse the beta [1 – 4] glycosidic bond of plant cellulose
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due to the lack of the enzyme cellulase. Thus, ruminants must completely depend on the microbial flora, present in the rumen or hindgut, to digest cellulose. Digestion of food in the rumen is primarily carried out by the rumen microflora, which contains dense populations of several ...

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should be helpful to other than the rumen microbiologist.

Atlas of rumen microbiology. - CAB Direct The rumen is a complex ecosystem composed of anaerobic bacteria. protozoa, fungi, methanogenic archaea and phages. These microbes interact closely Page 29/31

to breakdown plant material that cannot be digested by humans, whilst providing metabolic energy to the host and, in the case of archaea, producing methane.

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