

ECVP/ESVP Summer School in Veterinary Pathology

Summer School 2010 – Mock Exam Case 10

Tissue from a Pig Colon

Morphologic diagnosis / diagnoses

Intestine (large), **catarrhal colitis** (enteritis, or: colonic infection) with colonization of the intestinal lumen and of the enterocytic apical surface by **adhesive bacilli**

Etiologic diagnosis / diagnoses

Intestinal colibacillosis (or colibacillary enteritis)

Marks

Intestine.....	1
Enterocyte/polarized epithelium.....	1
Adjacent/cohesive cells with apical junctional complexes	1
Mitochondria.....	1
Lipid droplets.....	1
Electron-lucent vacuoles	1
Apical microvilli	0.5
forming brush border.....	0.5
Goblet cell	1
Moderately electron-dense secretory granules (mucin).....	1
Undergoing exocytosis.....	1
Catarrhal / excess mucus.....	1
Micro-organisms: bacteria	1
Bacteria, location:	
free in the lumen	0.5
in contact with the microvilli.....	0.5
Bacteria, description:	
elongated in shape	0.5
size = 2 !m x 500 nm	0.5
Morphologic diagnosis.....	3
Etiologic diagnosis.....	1
Style	2

Reference



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Pritchard J, Ngeleka M, Middleton DM. **In vivo and in vitro colonization patterns of AIDA-I-positive *Escherichia coli* isolates from piglets with diarrhea.** J Vet Diagn Invest 16:108–115 (2004)