

# Urinalysis of animals - Reference Values<sup>1)</sup>

Parameter	Species	Dog	Cat	Rabbit	Guinea pig	Horse	Cattle	Sheep	Goat	Pig
Urinary volume <sup>2)</sup>		14-50 ml/kg	18-25 ml/kg	20-350 ml/kg	n.s.	8-30 ml/kg	16-50 ml/kg	10-40 ml/kg	10-40 ml/kg	10-80 ml/kg
Colour		pale yellow - brown yellow	yellow - strong dark yellow	pale yellow - red brown	yellow (reddish)	ochre	pale yellow - dark brown yellow	pale yellow - dark brown yellow	pale yellow - dark brown yellow	pale yellow - dark yellow
Transparency		clear	clear	clear	clear	turbid	clear	clear	clear	clear
Odour		garlic like	sharp	n.s.	n.s.	aromatic	aromatic	indifferent aromatic	indifferent aromatic	aromatic displeasing
Blood		negative	negative	negative	negative	negative	negative	negative	negative	negative
Urobilinogen		negative - weak positive	negative - weak positive	negative - weak positive	negative - weak positive	negative - weak positive	negative - weak positive	negative - weak positive	negative - weak positive	negative - weak positive
Bilirubin		negative - weak positive <sup>3)</sup>	negative	negative	negative	negative	negative	negative	negative	negative
Protein		negative	negative	negative	negative	negative	negative	negative	negative	negative
Nitrite		negative	negative	negative	negative	negative	negative	negative	negative	negative
Ketones <sup>4)</sup>		negative	negative	negative	negative	negative	negative	negative	negative	negative
Glucose		negative	negative	negative	negative	negative	negative	negative	negative	negative
pH value <sup>5)</sup>		5.5 - 7.0	5.0 - 7.0	8.2	8.0 - 9.0	7.6 - 9.0	7.0 - 8.4 <sup>6)</sup>	7.5 - 8.5	7.5 - 8.5	5.5-8.0
Specific gravity		1.001-1.065	1.001-1.080	1.003-1.036	1.000-1.040	1.020-1.040	1.020-1.040	1.020-1.040	1.020-1.040	1.020-1.040
Leukocytes		negative	negative	negative	negative	negative	negative	negative	negative	negative

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### Ordering Information:

Medi-Test Combi 10<sup>®</sup> VET, package à 100 pcs.  
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### Literature:

- 1) W. Kraft, U.M. Dürr, Klinische Labordiagnostik in der Tiermedizin, 6th Edition 2005, pp. 186-203 and 483-484
- 2) normal amount in 24 h
- 3) negative to weak positive reaction may be observed although the animal is healthy.
- 4) For ruminant animals a slight positive reaction is possible at the end of pregnancy and early lactation.
- 5) depending on feed
- 6) The pH-value depends on the lactation. By the end of pregnancy it is 6.0-7.0 for ruminant animals.

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