PHAN®

Test Strips for Urine Analysis

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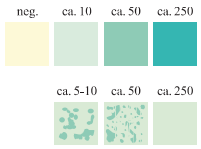
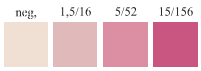
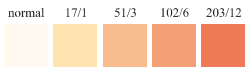
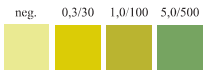
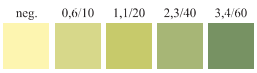
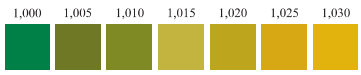
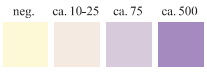
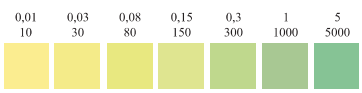
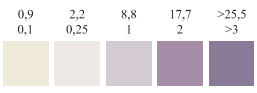
PHAN® test strips for urine analysis

Quick Overview of Patient‘s Health

Parameter	Abbreviation	Units	Evaluation time	Colour scale	Principle of the test
Haemoglobin **Erytrocytes**	BLD	Ery/µl	ca 60 s		oxidation of chromogene by organic hydroperoxide in the presence of the haemoglobine
Ketones	KET	mmol/l mg/dl	ca 60 s		sodium nitropruside in alkaline buffer (Legal‘s test)
Bilirubin	BIL	arb.u.	ca 60 s		reaction of diazonium salt in acidic surroundings
Urobilinogen	UBG	µmol/l mg/dl	ca 60 s		reaction of diazonium salt in acidic surroundings
Glucose	GLU	mmol/l	ca 60 s		enzymatic reaction – glucoseoxidase, peroxidase, chromogene
Protein	PRO	g/l mg/dl	ca 60 s		protein error of pH indicator – mixed acido-basic indicator changes colour in the presence of proteins
pH	pH		ca 60 s		mixed acido-basic indicator
Nitrites	NIT		ca 60 s		modified Griess‘ reaction
Ascorbic Acid	AA	mmol/l mg/dl	ca 60 s		reduction of molybdophosphoric acid into molybdenum blue
Specific Gravity	SG		ca 60 s		colour change of acidobasic indicator dependant on ion exchange
Leucocytes	LEU	Leu/µl	ca 120 s		enzymatic reaction – esterase splits substrate into free indoxyl, which reacts with diazonium salt
Microalbumin	MA	g/l mg/l	ca 60 s		acido-basic indicator changes colour in the presence of albumine
Creatinine	CRE	mmol/l g/l	ca 60 s		Benedict-Behres‘ reaction

Sensitivity		Specificity	Specificity Interference	
SI	Conv.		Ascorbic Acid	Other
5 Ery/µl		specific for haemoglobin and myoglobin	All pads are protected against normal concentrations of ascorbic acid.	extremely high SG
0.1–0.2 mmol/l	1.0–2.0 mg/dl	high for acetoacetic acid, low for acetone, none for butyric acid		drugs and diagnostics based on phenolphtalein or sulphophtalein
4.3–5.2 µmol/l	0.25–0.30 mg/dl	specific for conjugated bilirubin		high concentration of UBG and light
6.0 µmol/l	0,35 mg/dl	urobilinogen and sterkobilinogen		phenazopiridine, bilirubin and light
0.9 mmol/l	16 mg/dl	specific for D-glucose		traces of detergents in the bases of peroxides and oxidizing agents
0.15 g/l	15 mg/dl	specific for albumin		drugs based on quinine and quinoline, alkaline urine with pH > 8, traces of detergents and disinfectants based on quarternaryammonium salt and urine with high buffer capacity
				foreign alkaline and/or acidic substances, old urine with pH about 9
11 mmol/l	0.05 mg/dl	specific for nitrite (70 % of bacteriuria)		diuresis and phenazopyridine
0.2–0.3 mmol/l	3.0–5.0 mg/dl	non specific oxidation – reduction reaction		reducing agents present in the urine
				pH > 6,5
10 Leu/µl		granulocytes and histiocytes		alkaline pH, higher SG and high concentration of bilirubin increase the intensity of colour reaction
0.03 g/l	30 mg/l	specific for albumine		drugs based on quinine and quinoline, alkaline urine with pH > 8, traces of detergents and disinfectants based on quarternaryammonium salt and urine with a high buffer capacity, high concentration of creatinine (>26.5 mmol/l)
0.4 mmol/l	0.04 g/l	specific for creatinine		urine with high buffer capacity decreases intensity of colour, high concentration of acetoacetic acid (>50 mmol/l)

Visual strips PHAN©																	
Product name	**Cat. Nr.**	**Qty**	**Exp.**	**SG**	**NIT**	**pH**	**ASCO**	**PRO**	**GLU**	**KET**	**UBG**	**BIL**	**LEU**	**BLD**	**MA**	**CRE**	**CP**
AlbuPHAN	URPH0001	50	24					●									
GlukoPHAN	URPH0002	50	27						●								
HemoPHAN	URPH0003	50	24											●			
KetoPHAN	URPH0004	50	30							●							
DiaPHAN	URPH0005	50	27						●	●							
IktoPHAN	URPH0006	50	24								●	●					
TriPHAN	URPH0007	50	27			●		●	●								
TriPHAN	URPH0008	100	27			●		●	●								
TetraPHAN dia	URPH0009	50	24			●		●	●	●							
PentaPHAN	URPH0010	50	24			●		●	●	●				●			
HexaPHAN	URPH0011	50	24			●		●	●	●	●			●			
HexaPHAN	URPH0012	100	24			●		●	●	●	●			●			
HeptaPHAN	URPH0013	50	24			●		●	●	●	●	●		●			
HeptaPHAN	URPH0014	100	24			●		●	●	●	●	●		●			
NonaPHAN SG	URPH0015	100	24	●	●	●		●	●	●	●	●		●			
NefroPHAN leuco	URPH0016	50	15		●	●		●					●	●			
DekaPHAN leuco	URPH0017	50	15	●	●	●		●	●	●	●	●	●	●			
DekaPHAN leuco	URPH0018	100	15	●	●	●		●	●	●	●	●	●	●			
UndekaPHAN	URPH0019	50	15	●	●	●	●	●	●	●	●	●	●	●			
MicroalbuPHAN	URPH0020	50	21												●	●	
Objective strips PHAN© LAURA																	
DiaPHAN LAURA	URPH0024	100	21						●	●							●
TetraPHAN SG Laura	URPH0025	100	21	●		●		●	●								●
PentaPHAN LAURA	URPH0026	100	21			●		●	●	●				●			●
HeptaPHAN LAURA	URPH0027	100	21			●		●	●	●	●	●		●			●
DekaPHAN LAURA	URPH0028	100	15	●	●	●		●	●	●	●	●	●	●			●
MicroalbuPHAN LAURA	URPH0029	50	15												●	●	●

Specifications are subject to change without prior notice.
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The devices are in compliance with the IVDR requirements for CE marking.

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