



PHAN[®]

Test Strips for Urine Analysis



Making Automation Affordable
for Labs Everywhere

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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	Sensitivity		Specificity	Specificity Interference	
						SI	Conv.		Ascorbic Acid	Other
Haemoglobin	BLD	Ery/ μ l	ca 60 s		oxidation of chromogene by organic hydroperoxide in the presence of the haemoglobine	5 Ery/ μ l		specific for haemoglobin and myoglobin	All pads are protected against normal concentrations of ascorbic acid.	extremely high SG
Erythrocytes										drugs and diagnostics based on phenolphthalein or sulphophtalein
Ketones	KET	mmol/l mg/dl	ca 60 s		sodium nitropruside in alkaline buffer (Legal's test)	0.1–0.2 mmol/l	1.0–2.0 mg/dl	high for acetoacetic acid, low for acetone, none for butyric acid		high concentration of UBG and light
Bilirubin	BIL	arb.u.	ca 60 s		reaction of diazonium salt in acidic surroundings	4.3–5.2 μ mol/l	0.25–0.30 mg/dl	specific for conjugated bilirubin		phenazopyridine, bilirubin and light
Urobilinogen	UBG	μ mol/l mg/dl	ca 60 s		reaction of diazonium salt in acidic surroundings	6.0 μ mol/l	0,35 mg/dl	urobilinogen and sterkobilinogen		traces of detergents in the bases of peroxides and oxidizing agents
Glucose	GLU	mmol/l	ca 60 s		enzymatic reaction – glucoseoxidase, peroxidase, chromogene	0.9 mmol/l	16 mg/dl	specific for D-glucose		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
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	0.15 g/l	15 mg/dl	specific for albumin		foreign alkaline and/or acidic substances, old urine with pH about 9
pH	pH		ca 60 s		mixed acido-basic indicator					diuresis and phenazopyridine
Nitrites	NIT		ca 60 s		modified Griess' reaction	11 mmol/l	0.05 mg/dl	specific for nitrite (70 % of bacteriuria)		reducing agents present in the urine
Ascorbic Acid	AA	mmol/l mg/dl	ca 60 s		reduction of molybdophosphoric acid into molybdenum blue	0.2–0.3 mmol/l	3.0–5.0 mg/dl	non specific oxidation – reduction reaction		pH > 6,5
Specific Gravity	SG		ca 60 s		colour change of acidobasic indicator dependant on ion exchange				alkaline pH, higher SG and high concentration of bilirubin increase the intensity of colour reaction	
Leucocytes	LEU	Leu/ μ l	ca 120 s		enzymatic reaction – esterase splits substrate into free indoxyl, which reacts with diazonium salt	10 Leu/ μ l		granulocytes and histiocytes	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)	
Microalbumin	MA	g/l mg/l	ca 60 s		acido-basic indicator changes colour in the presence of albumine	0.03 g/l	30 mg/l	specific for albumine	urine with high buffer capacity decreases intensity of colour, high concentration of acetoacetic acid (>50 mmol/l)	
Creatinine	CRE	mmol/l g/l	ca 60 s		Benedict-Behres' reaction	0.4 mmol/l	0.04 g/l	specific for creatinine		

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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