

This ClinEasy® Complete Kit is designed for the photometric determination of urinary 5-aminolevulinic acid (5-ALA) and porphobilinogen (PBG). Enhanced levels of 5-ALA and PBG are observed with porphyrias and in case of certain intoxications (lead). The sample preparation is performed by combination of special SPE columns for 5-ALA and PBG. In case only PBG shall be determined, a separate ClinEasy® Complete Kit is available (see pages 110 - 111). For diagnostic verification a ClinEasy® Complete Kit for the total porphyrins (see pages 112 - 113) and a ClinRep® HPLC Complete Kit for the differentiated porphyrins (see pages 50 - 51) are additionally provided.



→ Cost-efficient screening

→ Easy handling

→ Reliable test results

# Porphyria, Lead Intoxication

## 5-Aminolevulinic Acid / Porphobilinogen in Urine

### Test Data

Linearity: 0.8 - 80 mg/l  
 Recovery: > 90 %  
 LOD: 0.6 mg/l  
 LLOQ: 0.8 mg/l  
 Intraassay precision: 5-ALA: 3.4 %  
 PBG: 5.2 %  
 Interassay precision: 5-ALA: 4.6 %  
 PBG: 6.4 %

### Sample Preparation

Extraction:

Apply 0.5 ml urine to a conditioned 5-ALA / PBG double column

↓ wash (3 x 10 ml HPLC water)

Separate the double column

Colourless column: → A: Sample Preparation for 5-ALA  
 Blue column: → B: Sample Preparation for PBG

A: Sample Preparation for 5-ALA

Elution:

Elute with 7.0 ml Reagent A (receiver tube: 500 µl Reagent B)

↓ collect the eluate

1. Incubate at 100 °C (water bath, 10 min)  
 2. Add 7.0 ml Ehrlich's Reagent  
 3. Incubate at room temperature (15 min)

Analysis:

Photometric measurement

B: Sample Preparation for PBG

Elution:

Elute with 4.0 ml Reagent D

↓ collect the eluate

1. Add 4.0 ml Ehrlich's Reagent  
 2. Incubate at room temperature (15 min)

Analysis:

Photometric measurement



### Ordering Information

Order No.	Description	Quantity
17200	ClinRep® Complete Kit for 5-Aminolevulinic Acid and Porphobilinogen in Urine for 50 assays	1 pce.
<b>Kit Components (order no 17200):</b>		
17220	Sample Preparation Columns for 5-ALA	50 pcs.
17320	Sample Preparation Columns for PBG	50 pcs.
17221	Reagent A	500 ml
17222	Reagent B	50 ml
17223	Reagent C	2 x 17223 (2 x 7.5 g)
17224	Reagent D	200 ml
	Manual	1 pce.
	Quick Reference	1 pce.
17300	ClinRep® Complete Kit for Porphobilinogen in Urine for 50 assays	1 pce.
<b>Kit Components (order no 17300):</b>		
17320	Sample Preparation Columns for PBG	50 pcs.
17223	Reagent C	7.5 g
17224	Reagent D	200 ml
	Manual	1 pce.
	Quick Reference	1 pce.
<b>Accessories:</b>		
17260	Column Rack (for 20 columns)	1 pce.
FK6300	Reagent tube (100 x 16 mm) with screw cap and o-ring, PP, autoclavable up to 121 °C	50 pcs.
<b>ClinCal® Calibrator:</b>		
17213	Urine Calibrator, lyophil.	5 x 5 ml
<b>ClinChek® Controls:</b>		
17280	Urine Control, lyophil., Level I	10 x 5 ml
17281	Urine Control, lyophil., Level II	10 x 5 ml
17282	Urine Control, lyophil., Level I, II	2 x 5 x 5 ml