



Urinary ketone Body Qualitative Test Kit (Lange method)

Cat: AK0826-50T

Size: 50 T

Storage: RT, valid for 1 year.

Product Composition

Name	50 T	Storage
Reagent A: Sodium Nitroprusside	10 g	RT, avoid light
Reagent B: Lange's Acid Solution	20 mL	RT
Reagent C: Lange's Ammonia Solution	100 mL	RT

Introduction

In urine containing ketone bodies, the addition of sodium nitroprusside generates a purple ring under the action of an alkaline solution. The addition of a trace amount of Lange's acid solution can prevent false positives. The qualitative urine ketone detection kit (Lange method) uses the Lange method for detection and is mainly used for the qualitative detection of ketone body content in human and animal urine. This kit is for research purposes only and is not suitable for clinical diagnosis or other uses.

Protocols (for reference only)

1. Take 4 mL of fresh urine and place it in a test tube. Add 0.2 g of nitroprusside, then add 0.4 mL of Lange acid solution and shake repeatedly to dissolve.
2. Mix thoroughly, then carefully add 1.6 mL of Lange ammonia solution along the wall of the tube to form an interface with the urine. Allow it to stand and observe.

Result Interpretation

Qualitative Analysis	Reaction	Content (mg/L)	
		Acetoacetate	Acetone
Negative	No purple ring after 5 minutes	—	—
Suspicious	Only a faint purple ring appears	50	200-400
+	Faint purple ring appears gradually	100	1000
2+	Faint purple ring appears relatively quickly	200-400	2500-5000
3-4+	Faint purple ring appears immediately	1000-3000	8000-10000



Note

1. When the concentration of ketone bodies in urine is high, the purple color is more pronounced; when the concentration is low, the red color is more pronounced.
2. Lange's ammonia solution is volatile and should be stored in a sealed container to prevent poor color development.
3. When there is a large amount of amorphous urate in the urine, a yellow to brown ring may form.
4. The product information is for reference only. If you have any questions, please contact Sunlong staff in time.
5. The products are all for scientific research use only. Do not use it for medical, clinical diagnosis or treatment, food and cosmetics, etc. Do not store them in ordinary residential areas.
6. For your safety and health, please wear laboratory clothes, disposable gloves and masks to operate.