

BJ OUCHTERLONY FREE

Free light chains determination in urine for Bence Jones's proteinuria detection by double radial immunodiffusion according to Ouchterlony technique

TEST SUMMARY

The antibody and the antigen, dispensed in two different wells of agar gel, through the diffusion create a concentration gradient in the same gel. Between the two wells, where the antibody and the antigen concentrations are equal, there is a formation of immunoprecipitation band.

SAMPLES

Fresh urine.

REAGENTS

Plate

Agarose gel 0,9 %; Tris Buffer 50 mM pH 7.4, colouring, PEG 6000 3%.

Antibody Kappa Free

Antibody anti Free Kappa chains, buffer PBS pH 7.4, precipitants, colorants, stabilizings and preservatives.

Antibody Lambda

Antibody anti Free Lambda chains, buffer PBS pH 7.4, precipitants, colorants, stabilizings and preservatives.

Positive Control

Stabilized human solution with Kappa and Lambda Free light chains.

REAGENTS PREPARATION AND STORAGE

All reagents are ready to use.

The reagents are stable until expiration date on the label at 2°-8°C.

MATERIAL REQUIRED BUT NOT SUPPLIED

Micropipette to 30-50 µl, current laboratory instrumentation.

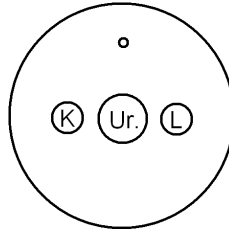
PRECAUTIONS

Reagents may contain some non-reactive and preservative components. It is suggested to handle carefully it, avoiding contact with skin and swallow. Perform the test according to the general "Good Laboratory Practice" (GLP) guidelines.

PROCEDURE

Allow all reagent and samples to come to room temperature.

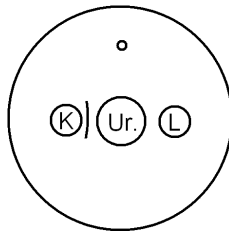
Open the plate and wait for the evaporation of the condensation that may be in the wells. The plate has a bigger well in the centre and two smaller wells on the two sides. There is also a very small well that indicates you how to set the plate. This well must be upwards. Once set the plate, dispense first the reagents and then the sample: in the left well dispense 30 µl of anti Kappa free, in the right well dispense 30 µl of anti Lambda free, in the central well dispense 50 µl of urine. Close the plate and let it react from 12 to 24 hours at room temperature. Read the possible appeared immunoprecipitates by lighting the back of the plate with an oblique light and by observing it perpendicularly on a black background.



RESULTS INTERPRETATION

The absence of any immunoprecipitation of both chains means that the sample is negative for Bence Jones.

The presence of any immunoprecipitation in almost one of the two chains (Kappa Free or Lambda Free) indicates the possible presence of Bence Jones protein that must be confirmed by an immunofixation test.



TEST PERFORMANCE

Precision

Intra assay (n = 60)	+	-
Bence Jones LTA	20	40
Test competitor	20	40

Sensitivity limits

The sensitivity is 10 mg/L for Kappa Free chains and 10 mg/L for Lambda Free chains.

WASTE DISPOSALS

This product is made to be used in professional laboratories. Please consult local regulations for a correct waste disposal.

PACKAGING

CODE UK01200 (50 TESTS)

Double immunodiffusion plate	50
Antibody Kappa Free	1 x 1,5 mL
Antibody Lambda Free	1 x 1,5 mL
Positive Control	1 x 0,3 mL

REFERENCE

OUCHTERLONY O. - Antigen-Antibody reaction in gels. Arkiv. Kemy mineral Geol. 26B (14), 1-9 (1948).

MANUFACTURER

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SYMBOLS

- Only for IVD use
- Lot of manufacturing
- Code number
- Storage temperature interval
- Expiration Date (Year - Month)
- Warning, read enclosed documents
- Read the directions
- Biological risk

Mod. 01.06 (ver. 1.0 - 03/04/2013)

