

κλoneus®

Free Light Chains

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by  **TRIMERO**
DIAGNOSTICS

Free Light Chains urine and serum.

Reagents based on polyclonal antibodies and immunogens.

Particle-enhanced assays for serum and urine.

Values referred to the European Reference Material ERM-DA470k/IFCC to ensure lot-to-lot traceability.

Nephelometric assays for BN™ series and IMMAGE® systems.

Turbidimetric assays for ADVIA™, AU® and other systems.

Good correlation with the densitometric estimation of Bence-Jones proteinuria.



Compatible with



**BECKMAN
COULTER**

**SIEMENS
Healthineers**

systems

Alternative Approach for the determination of Bence Jones Proteinuria (BJP), based on the IFCC Guidelines^{*1a}

Screening Test

Quantification of Free Light Chains in non-concentrated urine (ur-FLC)

Recommended Sample^{*1b}:

2nd morning void and expressing the results relative to creatinine

with **κλoneus[®]** assays
by Nephelometry (NIA) or Turbidimetry (TIA)

Recommended Detection Limit^{*1c}:
< 10 mg/L

**Kappa or Lambda
>10 mg/L**

**Kappa and Lambda
<10 mg/L**

BJP Suspicion

STOP

Confirmation Test

to determine the electrophoretic, mono, oligo or polyclonal distribution of the quantified ur-FLC by **κλoneus[®]** assays

by Immunofixation (IF)
of concentrated urine
Recommended Sensitivity^{*1e}: < 10 mg/L

the quantitative result obtained by **κλoneus[®]** is an objective guide to establish the urine concentration factor and it can also be useful in monitoring and quantitative estimation of the urinary monoclonal component ^{*1f} which is more precise and sensitive than densitometrically dosed

1. "Guidelines for the Analysis of Bence Jones Protein"

M. Graziani et al. for the IFCC Committee on Plasma Proteins
and the SIBioC Study Group on Proteins
Clin Chem Lab Med 2003; 41(3):338-346

1a. page 339:

"Alternative approaches

Immunochemical methods (nephelometry, turbidimetry) for the quantification of FLCs in urine can be used for BJP detection as an initial screening to exclude BJP, thus reducing the number of samples to process further."

1b. page 339:

"Sample

...

... we recommend the use of the second morning void (5) and expressing the concentration of BJP relative to urinary creatinine."

1c. page 340:

"Alternative approaches

...

... it is mandatory to control and avoid antigen excess and to document a detection limit below 10 mg/l."

1d. page 340:

"Alternative approaches

...

... A positive test should be followed by immunofixation (IF) for the following reasons: ..."

1e. page 339:

"Sensitivity

The indication of a detection limit for BJP can only be approximate since there is no way of obtaining an accurate quantification of the protein. However, since the indicated amount for polyclonal LC excretion is approximately 10 mg/l (10, 11), a method with a sensitivity down to this limit is suggested."

1f.

page 340:

"Quantification

...

Despite all these drawbacks, the immunochemical estimation of BJP may be of clinical value to monitor the clone during treatment, but it is necessary to utilize the same antisera and calibrators throughout the follow-up and to keep in mind all the caveats listed above."



This catalogue lists Reagents, Calibrators and Controls intended for testing Specific Proteins, by turbidimetric method, on general **Clinical Chemistry automatic analyzers**.

Products are also available
for other analytical platforms

For further information, please contact the
Customer Support Service at support@3diag.com

→ C1q Complement

Particle-enhanced Turbidimetric Immunoassay (PETIA), standardized to the *WHO's International Ref. Preparation for human serum complement Factors* (code: W1032).

REF TD-42555 **3diag - C1q - TIA KIT**
Contents: Reagents, Calibrators and Controls ▾ 100 test

→ C5 Complement

Turbidimetric Immunoassay (TIA), standardized to the *WHO's International Ref. Preparation for human serum complement Factors* (code: W1032).

REF TD-42575 **3diag - C5 - TIA KIT**
Contents: Reagents, Calibrators and Controls ▾ 100 test

→ Free Light Chains (FLC) - serum and urine



Particle-enhanced Turbidimetric Immunoassays (PETIA), traced to the *European Reference Material* (code: ERM[®]-DA470k/IFCC) of the *Institute for Reference Materials and Measurements (IRMM)*, using the formula of M.M. Lievens (J.Clin.Chem.Clin.Biochem 1989;27:519-23)..

REF TD-42510-SK **kloneus[®] - S-FLC-K - TIA KIT**
Contents: Free Kappa Reagents, Calibrators, and Controls - **Serum** ▾ 100 test

REF TD-42510-SL **kloneus[®] - S-FLC-L - TIA KIT**
Contents: Free Lambda Reagents, Calibrators, and Controls - **Serum** ▾ 100 test

REF TD-42510-U **kloneus[®] - U-FLC - TIA KIT**
Contents: Free Kappa and Lambda Reagents, Calibrators, and Controls - **Urine** ▾ 100+100 test

→ C1 (Esterase) Inhibitor

Turbidimetric Immunoassay (TIA).

REF TD-42595 **3diag - C1In - TIA KIT**
Contents: Reagents, Calibrators and Controls ▾ 100 test

→ Cystatin C - urine

Particle-enhanced Turbidimetric Immunoassay (PETIA), standardized to the *European Reference Material for the Cystatin C* (code: ERM[®]-DA471/IFCC), of the *Institute for Reference Materials and Measurements (IRMM)*.

REF TD-42615-U **3diag - U-CysC - TIA KIT**
Contents: Reagents, Calibrators and Controls ▾ 100 test

→ Beta-2 Microglobulin - urine

Particle-enhanced Turbidimetric Immunoassay (PETIA), standardized to the *WHO's 1st International Standard for Beta2 Microglobulin* (code: B2M).

REF TD-42535-U **3diag - U-B2m - TIA KIT**
Contents: Reagents, Calibrators and Controls ▾ 100 test

→ Hemopexin

Turbidimetric Immunoassay (TIA), standardized to the *1st British Standard for Human Serum Proteins (other than Immunoglobulins)* (code: 74/520) (*NIBSC - a WHO Laboratory for Biological Standards*).

REF TD-42635 **3diag - HPX - TIA KIT**
Contents: Reagents, Calibrators and Controls ▾ 100 test

→ IgD Immunoglobulins

Particle-enhanced Turbidimetric Immunoassay (PETIA), standardized to the **British Research Standard for IgD** (code: 67/037) (*NIBSC - a WHO Laboratory for Biological Standards*).

REF **TD-42655** **3diag - IgD - TIA KIT**
Contents: Reagents, Calibrators and Controls ▾ 100 test

→ Retinol Binding Protein - serum and urine

Particle-enhanced Turbidimetric Immunoassay (PETIA).

REF **TD-42675** **3diag - RBP - TIA KIT**
Contents: Reagents, Calibrators and Controls ▾ 100 test

REF **TD-42675-U** **3diag - U-RBP - TIA KIT**
Contents: Reagents, Calibrators and Controls ▾ 100 test

→ Soluble Transferrin Receptor (sTfR)

Particle-enhanced Turbidimetric Immunoassay (PETIA), standardized to the *WHO's Reference Reagent Recombinant Soluble Transferrin Receptor (rsTfR)* (code: 07/202).

REF **TD-42696** **3diag - sTfR - Adv (5)**
Contents: Reagents - for **ADVIA**[®] ▾ 500 test
Siemens Healthcare REF: 11415057
ADVIA[®] and their associated brands are registered trademarks of *Siemens Healthcare*

REF **TD-42690** **3diag - sTfR - TIA KIT**
Contents: Reagents, Calibrators and Controls ▾ 100 test

REF **TD-42691** **3diag - sTfR - TIA**
Contents: Reagents ▾ 100 test

REF **TD-42682** **3diag - sTfR - CAL SET**
Contents: Prediluted Calibrators (6 levels)
Beckman Coulter P/N: B28076
Siemens Healthcare REF: 11415032

REF **TD-42683** **3diag - sTfR - CONTROL**
Contents: Controls (2 levels)
Beckman Coulter P/N: B28080
Siemens Healthcare REF: 11415033

→ Light Chains (B&F) - serum and urine

Turbidimetric Immunoassays (TIA), traced to the **European Reference Material** (code: ERM[®]-DA470k/IFCC) of the *Institute for Reference Materials and Measurements (IRMM)*, using the formula of M.M. Lievens (*J.Clin.Chem.Clin.Biochem* 1989;27:519-23).

REF **TD-42775** **3diag - KAP - TIA KIT**
Contents: Reagents, Calibrators and Controls ▾ 100 test

REF **TD-42775-U** **3diag - U-KAP - TIA KIT**
Contents: Reagents, Calibrators and Controls ▾ 100 test

REF **TD-42795** **3diag - LAM - TIA KIT**
Contents: Reagents, Calibrators and Controls ▾ 100 test

REF **TD-42795-U** **3diag - U-LAM - TIA KIT**
Contents: Reagents, Calibrators and Controls ▾ 100 test

→ Factor B (C3 Proactivator)

Turbidimetric (TIA) Immunoassay, standardized to the *WHO's International Ref. Preparation for human serum complement Factors* (code: W1032).

REF **TD-42725** **3diag - FB - TIA KIT**
Contents: Reagents, Calibrators and Controls ▾ 100 test

→ Alpha-1 Microglobulin - urine

Particle-enhanced Turbidimetric Immunoassay (PETIA).

REF **TD-42831** **3diag - U-A1m - TIA**
Contents: Reagents ▾ 100 test
Beckman Coulter P/N: C40494

REF **TD-42832** **3diag - U-A1m - CAL SET**
Contents: Prediluted Calibrators (6 levels)
Beckman Coulter P/N: C40493

REF **TD-42833** **3diag - U-A1m - CONTROL**
Contents: Controls (2 levels)
Beckman Coulter P/N: C40492

→ Serum Amyloid A (SAA)

Particle-enhanced Turbidimetric Immunoassay (PETIA), standardized to the *WHO's Serum Amyloid A (SAA) 1st International Standard* (code: 92/680).

REF **TD-42895** **3diag - SAA - TIA KIT**
Contents: Reagents, Calibrators and Controls ▾ 100 test

REF **TD-42891** **3diag - SAA - TIA**
Contents: Reagents ▾ 100 test

REF **TD-42882** **3diag - SAA - CAL SET**
Contents: Prediluted Calibrators (6 levels)

REF **TD-42883** **3diag - SAA - CONTROL**
Contents: Controls (2 levels)