PRINCIPLE OF THE METHOD
Creatinine reacts with picric acid in alkaline environment to form a color complex. Developing of this red color may be followed photometrically at 500-520 nm. The association on surfactant and sodium tetaborate keeps interferences at minimum.

QUALITY CONTROL AND CALIBRATION
It is suggested to perform an internal quality control. For this purpose the following human based control sera are available:
- ON 0500 CH QUANTINORM CHEMA 10 x 5 ml with normal or close to normal control values
- QP 0500 CH QUANTIPATH CHEMA 10 x 5 ml with pathological control values.
If required, a multiparametric, human based calibrator is available:
- AT 0030 CH AUTOCAL H 10 x 3 ml
Please contact Customer Care for further information.

TEST PERFORMANCE
Linearity
The method is linear up to 20 mg/dl.

Sensitivity/limit of detection (LOD)
The limit of detection is 0.2 mg/dl.

Interferences
No interference was observed by the presence of:
- Hemoglobin ≤ 200 mg/dl
- Bilirubin ≤ 7 mg/dl
- Lipo ≤ 600 mg/dl

Methods comparison
A comparison between Chema and a commercially available product gave the following results:

CREATININE

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>intra-assay (n=10) mean (mg/dl) SD (mg/dl) CV%</td>
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| inter-assay (n=20) mean (mg/dl) SD (mg/dl) CV% |
| sample 1 | 1.31 | 0.04 | 2.90 |
| sample 2 | 3.80 | 0.14 | 3.80 |

REFERENCES
IUS-7.5 UK rev. 23/05/2011

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METHODS

SAFETY INSTRUCTIONS
In case of accidents or if you feel unwell, seek medical advice immediately (show the label where possible).

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S28 After contact with skin wash immediately with plenty of water and seek medical advice.

S20/21 When using do not eat, drink or smoke.

PRECAUTIONS

Handling: Xi R36/38 Irritating to eyes and skin.

Stability:
- Stability since first opening of vials of unmixed reagents: up to expiration date on the label.
- Stability of unmixed reagents: up to expiration date on the label.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

STORAGE

Store all components at 15-25°C.

WASTE DISPOSAL
This product is made to be used in professional laboratories. Please consult local regulations for a correct waste disposal.
S66: dispose of this material and its container at hazardous or special waste collection point.
S67: use appropriate container to avoid environmental contamination.
S61: avoid release in environment. Refer to special instructions/safety data sheets.

WATER ANALYSIS

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