

Potentiometric sensors for bioanalytes comprising selective molecular receptors: creatinine sensing

Unique Technology Offer

- Potentiometric sensor based on ion selective electrodes comprising selective molecular receptors for analytes such as creatinine.
- Accurate measurement of biomarker's amount in the sample thanks to proportional response of the system.
- Application to the determination of creatinine in urine and plasma samples.
- Stage of development: tested on real samples in the laboratory.
- European patent application filed (2015)

Value Proposition

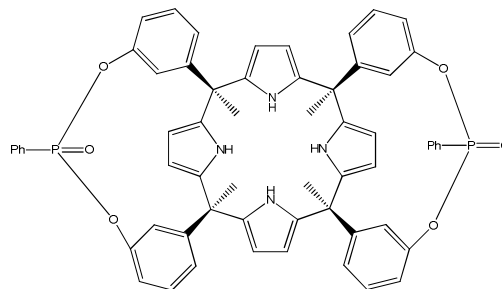
- Non-invasive diagnosis method.
- Low error margin with respect to currently marketed solutions
- Fast and accurate method.
- Method is applicable at point-of-care (POC): portable device.
- Extremely low cost of the sensor – reusable sensor
- Correlates well with Jaffé's method

Business opportunity/Market positioning

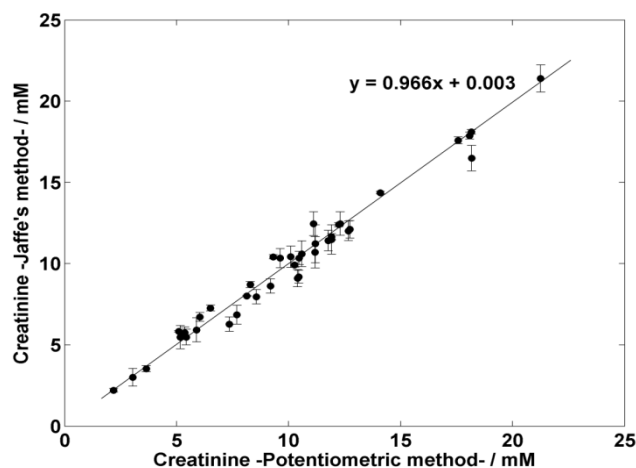
- Unique technology for the development of a diagnosis portable device .
- Global POC diagnostics market is expected to grow with a compound annual growth rate (CAGR) of 3,7% up to 2016, reaching a total value of \$16,5 billion.
- Blood chemistry segment is to reach a market value of \$2,9 billion in 2016 (CAGR of 4,8%).

Technology concept

Selective receptor in the Ion Selective Electrode



Correlation of Jaffé and potentiometric determination of creatinine in real samples:



Licensing Opportunity

- Partner for joint development and commercialisation of applications is sought.
- Global licensing rights for the platform and the method are available.
- Regional licensing deals will be considered.
- Flexible licensing strategy related to development milestones.

Further information:

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