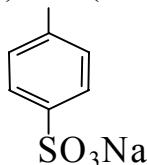


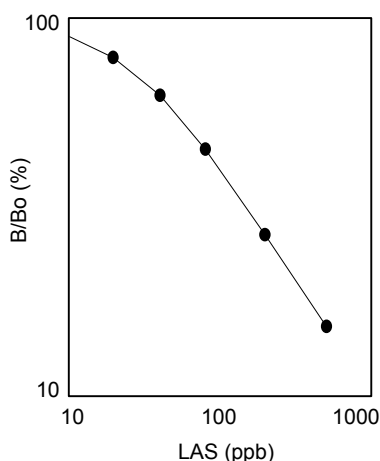
## Linear Alkylbenzene Sulfonate (LAS) EIA kit

The anionic surface active agent **Linear Alkylbenzene Sulfonate (LAS)** is the most used synthetic detergent and the major component among methylene blue active substances (MBAS).



**The Linear Alkylbenzene Sulfonate (LAS) EIA kit\*** specifically detects the surfactant LAS in water with high sensitivity with a simple procedure. In comparison, MBAS and HPLC, officially approved methods, require time-consuming operation for extraction and concentration.

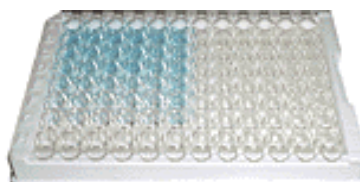
**The analysis** is based on a competitive reaction where enzyme-labelled standard LAS competes with free LAS in the sample for binding to a specific monoclonal antibody immobilised to the surface of the microtiter plate or tube. The amount of labelled LAS bound to the plate is determined by addition of a non-coloured substrate which is converted into a coloured product. The colour intensity is measured at 450 nm and is inversely proportional to the amount of LAS in the sample. The assay is calibrated using a standard solution of LAS supplied with the kit.



**The Linear Alkylbenzene Sulfonate (LAS) EIA kit** is suitable for applications such as analyses of waste and river water, textiles, detergent formulas and optimization of washing processes.

**The assay is highly sensitive, simple and rapid to perform.** The standard curve working range is 20-1000 µg/L. A simple solid phase extraction protocol is available for samples with very low concentrations of LAS.

**The kit is available** in a microplate (96 wells) format.



*\*) The Linear Alkylbenzene Sulfonate (LAS) EIA kit is licensed from Tokiwa Chemical Industries Co., Ltd.*

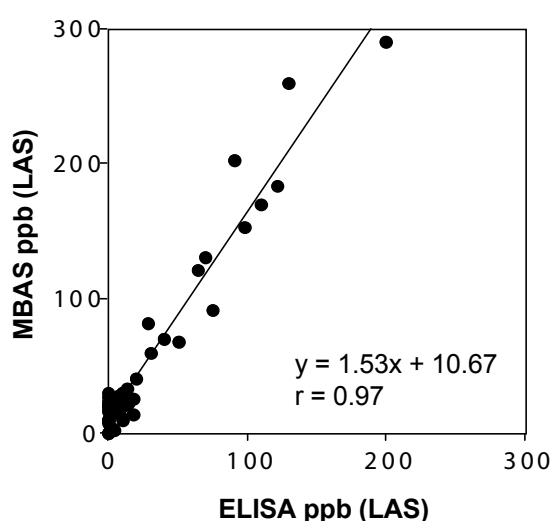
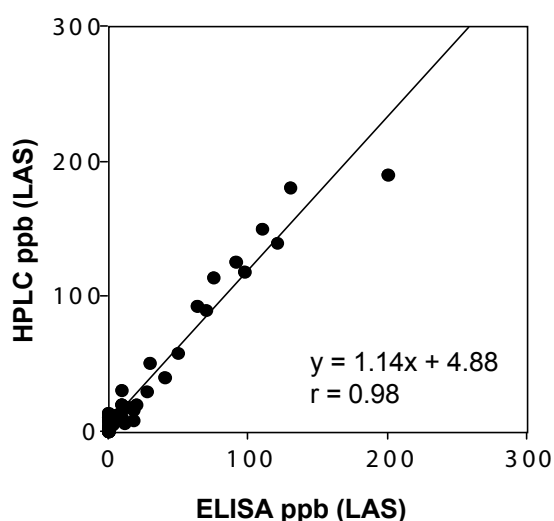
陰イオン界面活性剤 LAS ELISA KIT



**Cross-reactivity pattern**

Compound	Reactivity (%)
Linear alkylbenzene sulfonates (LAS)	
C12	100
C11	87
C10	101
C9	114
C8	75
Sodium dodecyl sulfate (SDS)	1.0
Sodium myristate	0.3
Sodium laurate	<b>0.1</b>
Sulfophenyl valeric acid	0.1
Disodium lauryl sulfosuccinate	<0.1
Benzenesulfonic acid	<0.1
Phenol	<0.1
Toluene	<0.1
Xylene	<0.1
Nonylphenol ethoxylate (EO=10)	<0.1
Polyoxyethylene (EO=20) sorbitan monolaurate	<0.1
Sodium palmitate	<0.1
Sodium stearate	<0.1

**Test data; comparison with conventional methods**



[www.biosense.com](http://www.biosense.com)

Biosense Laboratories AS, Thormøhlensgt. 55, N-5008 Bergen, Norway  
 Phone: +47 55543966, Fax: +47 55543771, e-mail: biosense@biosense.com