



RACING CHEMICAL SERVICE

ANALYSIS LABORATORY

ANTI-DOPING CONTROL AREA

A laboratory of excellence among the best in the world to ensure thoroughbreds' reliability and sanity.





NEW LAB

SAN ISIDRO RACECOURSE

The **chemical service** at **San Isidro Racecourse** conducts anti-doping control from official races run all over our country in its own premises as well as in third institutions.

GC - MS

SHIMADZU ICPE 9800





The area has a **Quality Management System certified** and based on the **ISO 9001:2015 regulation** and the laboratory has its tests within the scope of accreditation in compliance with **IRAM 301:2005**.

Professional staff belong to the **Association of Official Racing Chemists (AORC)** and take part in the **Proficiency Testing** program which is designed to check and detect the use of prohibited substances in horses.

Due to its professionals' commitment and performance, San Isidro Analysis Laboratory got the **Carlos Pellegrini 2016 award**.

San Isidro Racecourse is committed to the fight against doping and regards the continuous laboratory techniques development, the maintenance, calibration and the updating of the correct equipment and its staff constant training, knowledge and expertise and experience as the key factors to success.

With that understanding in mind, in October 2018 the **Chemical Service** opened its new premises with a floor space of **277 square meters**, tripling the current laboratory space.

The new premises will devote an area for the incoming of samples, adequate procedures and equipment, office boxes, a meeting room, a bookcase, and the room devoted to storing samples will be about 22 square meters.

It is worth mentioning that high purity gases supplies were installed using stemless stainless steel piping systems. A semi-automatic plant for argon that regulates high and low pressure was installed, too.

240 square meters of high resistance wall paneling against chemical agents and stains including B-s2, d0 firefighting enhanced protection in accordance with **EN 13501-1**.

Fireproof doors with RF60 flame retardant, certified by the INTI, high performance transit vinyl flooring in accordance

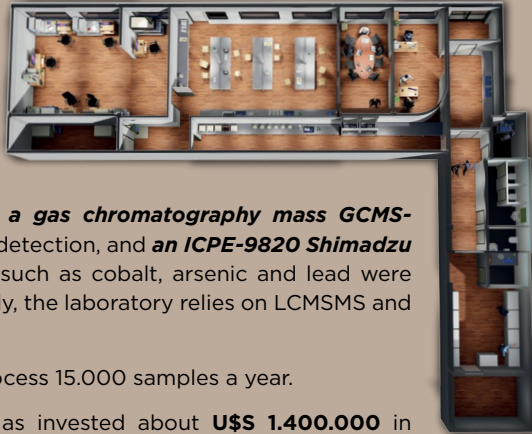
with **IRAM 11916, Class 1-**, 1.5 mm thick AISI 304 stainless steel laboratory tables.

Water and vacuum systems installation in thermo-fusion pipes.

Nowadays the laboratory service has three specialists and three technicians and process around 5000 samples yearly.

On October 27th, 2017 **a high performance liquid chromatography (HPLC) with a mass detector (LCMSMS)** made up of Nexera, Shimadzu chromatography and a **5500 QTrap detector, AB Sciex**, enabled a substantial increase in sensitive detection mainly thought to reach international screening levels in blood and plasm samples.





In a second stage, **a gas chromatography mass GCMS-QP2020** for AINES detection, and **an ICPE-9820 Shimadzu** to measure metals such as cobalt, arsenic and lead were added. Consequently, the laboratory relies on LCMSMS and GCMS equipment

It is expected to process 15.000 samples a year.

The Jockey Club has invested about **U\$S 1.400.000** in equipment and facilities in last two years and the next objective in mind to fulfil will be to be certified by the IFHA (International Federation of Horseracing Authority) to become a **IFHA** Reference Laboratory to analyze samples from the Group 1 races run in South America.



3200 AB SCIEX





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