

## Informe Análisis RTC/ RTC Analysis Report: Semenbag / Smallbag

### Metodología

La metodología de extracción del plástico fue la siguiente: La muestra se extrae con disolvente en baño de ultrasonidos durante 1 hora y tras la extracción se concentra por evaporación con un flujo de nitrógeno.

A continuación, se inyectan en el cromatógrafo de gases acoplado a espectrometría de masas (GC-MS) y en cromatografía líquida de ultra alta presión acoplada con espectrómetro de masas triple cuadrupolo (UPLC-QqQ-MS) para identificar y cuantificar los compuestos.

### Methodology

The plastic extraction methodology was as follows: The sample is extracted with solvent in an ultrasound bath for 1 hour and after extraction it is concentrated by evaporation with a nitrogen flow.

They are then injected into the gas chromatography-mass spectrometry (GC-MS) and ultra high performance liquid chromatography coupled with triple quadrupole mass spectrometry (UPLC-QqQ-MS) to identify and quantify the compounds.

### Resultados / Results

N / Ref. BM	BADGE	FTALATO-DOP	LACTONA AA-DEG	OTROS / OTHERS
96	Cumple / Compliant	Cumple / Compliant	Cumple / Compliant	Cumple / Compliant

Las siguientes bobinas cumplen con los requisitos RTC, para el control de tóxicos reproductivos. / The following materials comply with the RTC requirements for the control of the reproductive toxics.



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## Analysis certificate

Packing date | Test date | Register number  
2021-09-24 | 2021-09-22 | QCB/2021/0062

Product  
SEMENBAG / SMALLBAG  
Primary roll  
96

Magapor S.L. guarantees an exhaustive test control for semen containers, based on quality standards, which confirm that our products are suitable for sale.

A strict quality control is performed with samples of each batch. The percentage of motility is tested, both total and progressive, in **5 samples** per batch by means of a Computer-Assisted sperm analysis (CASA), that guarantees complete objectivity in the results.

Sperm survival is measured in motility terms by checking boar semen kept for 48 hours at 16°C in the containers to be tested in comparison with a control sample kept in packing control.

Once is verified that all the results are in standard ranges, our containers are free to be sold.

## VALIDATION

Results are shown below (Table 1).

Code	Control MT	Control MP	Blister Magapor MT	Blister Magapor MP
1-1	98	66	99	72
2-1	90	60	97	76
3-5	86	55	92	74
4-6	88	58	97	69
5-6	97	81	96	79

Table 1. Total motility(TM) and progressive motility (PM) percentages in samples kept at 16°C for 48 hours in different containers (bottle-clip; MAGAPOR BAGS). \*: Not valid, does not reach lower limit value.

## FINAL REPORT

APV

There are no significant differences between bottle-clip samples and Magapor bags kept at 16°C, so the batch:  
**PASSE THE VALIDATION**

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