



Quantification of total flora from a surface by ATP-metry

Thaw a dropper bottle of each reagent (EXTRACTANT, DENDRIDIAG® & STANDARD 1000) and bring them to room temperature (>18°C). Prepare the plastic consumables (swab and test tube) and the sampling template. Turn on the luminometer and wait 10 seconds for the device calibration. A video tutorial is available on GL BIOCONTROL website: www.gl-biocontrol.com.



1. Take a luminometer test tube and dispense 8 drops of **EXTRACTANT** reagent inside.



4. Add 2 drops of **DENDRIDIAG®** reagent in the test tube. Put the swab inside and homogenize the mix.



7. Correctly homogenize the mix by turning the swab inside the test tube to get a good standardization.



2. Get the swab out of its packaging and plunge the cotton tip in the test tube containing the reagent.



5. Break the swab, fix the tube to the tube holder and place them in the luminometer. Press the ENTER button.





3. Place the sampling template on the surface you want to control and scrub the surface (20 cm^2) with the swab.



6. Write down the R1 result (in RLU). Get the tube holder out of the luminometer and add one drop of **STANDARD 1000**.

9. Calculations:	
Standard = (in RLU/pg)	R2 – R1
	1000
$\begin{bmatrix} ATP \end{bmatrix} = -$ (in pg/cm ²) S	R1
	Standard x S
With: R1 (in RLU): result of the sample,	

R2 (in RLU): result after standardization, S (in cm²): surface sampled (20cm²), [ATP]: concentration in pgATP/cm².

ATP concentration is given in picogram of ATP per square centimeter (pgATP/cm²). It can be expressed in equivalent bacteria per square centimeter (eq.bact./cm²) based on the following scientific consensus: **1 picogram ATP \approx 1 000 bacteria**. The results of these calculations can be automatically obtained by filling in the Excel table supplied. A video tutorial is available on GL BIOCONTROL website: www.gl-biocontrol.com.

GL BIOCONTROL

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