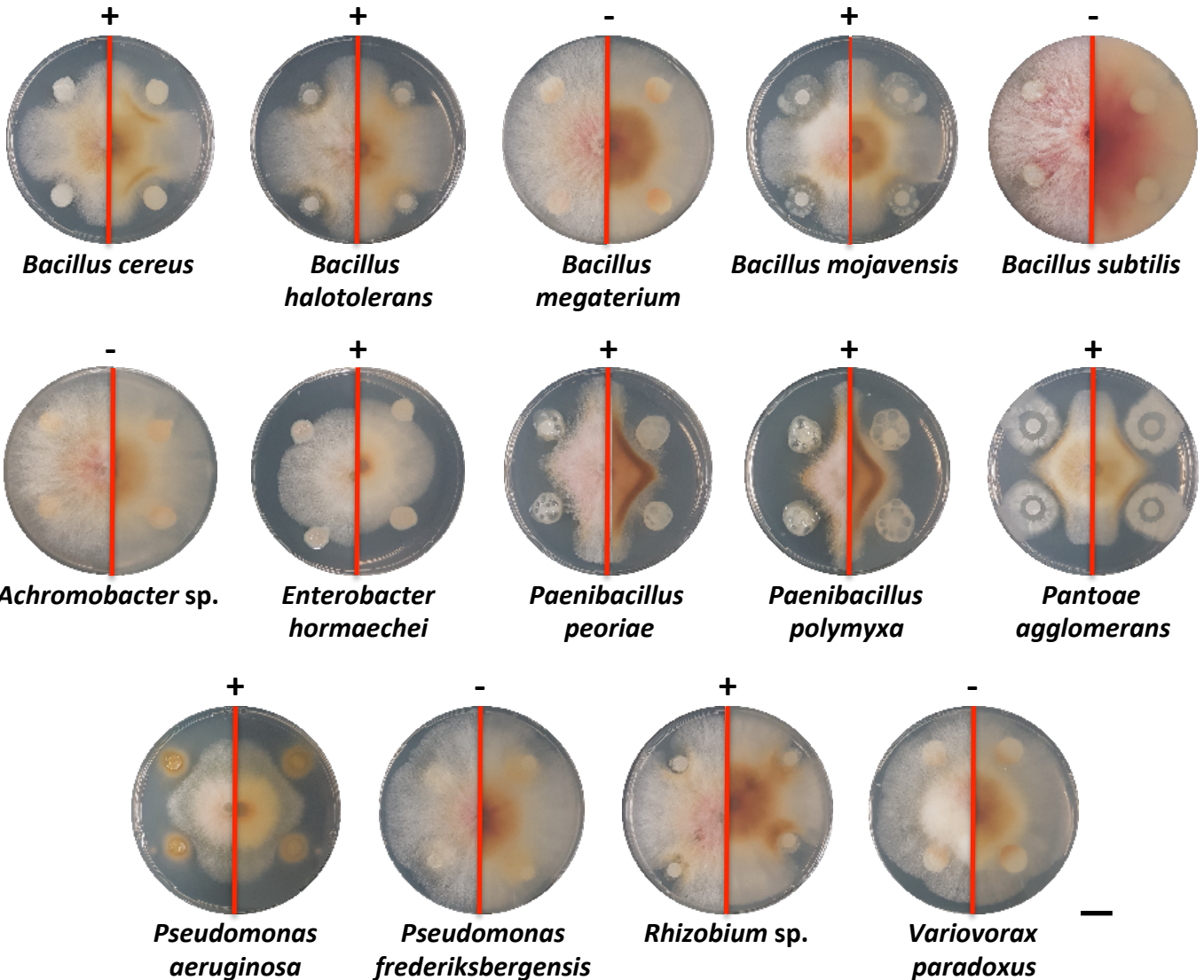


S3 Figure.

S3 Figure. Macroscopic assessment of the dual confrontations of each rhizobacteria against *F. culmorum*, and semi-quantification of all CDWEs activities studied for each strain.

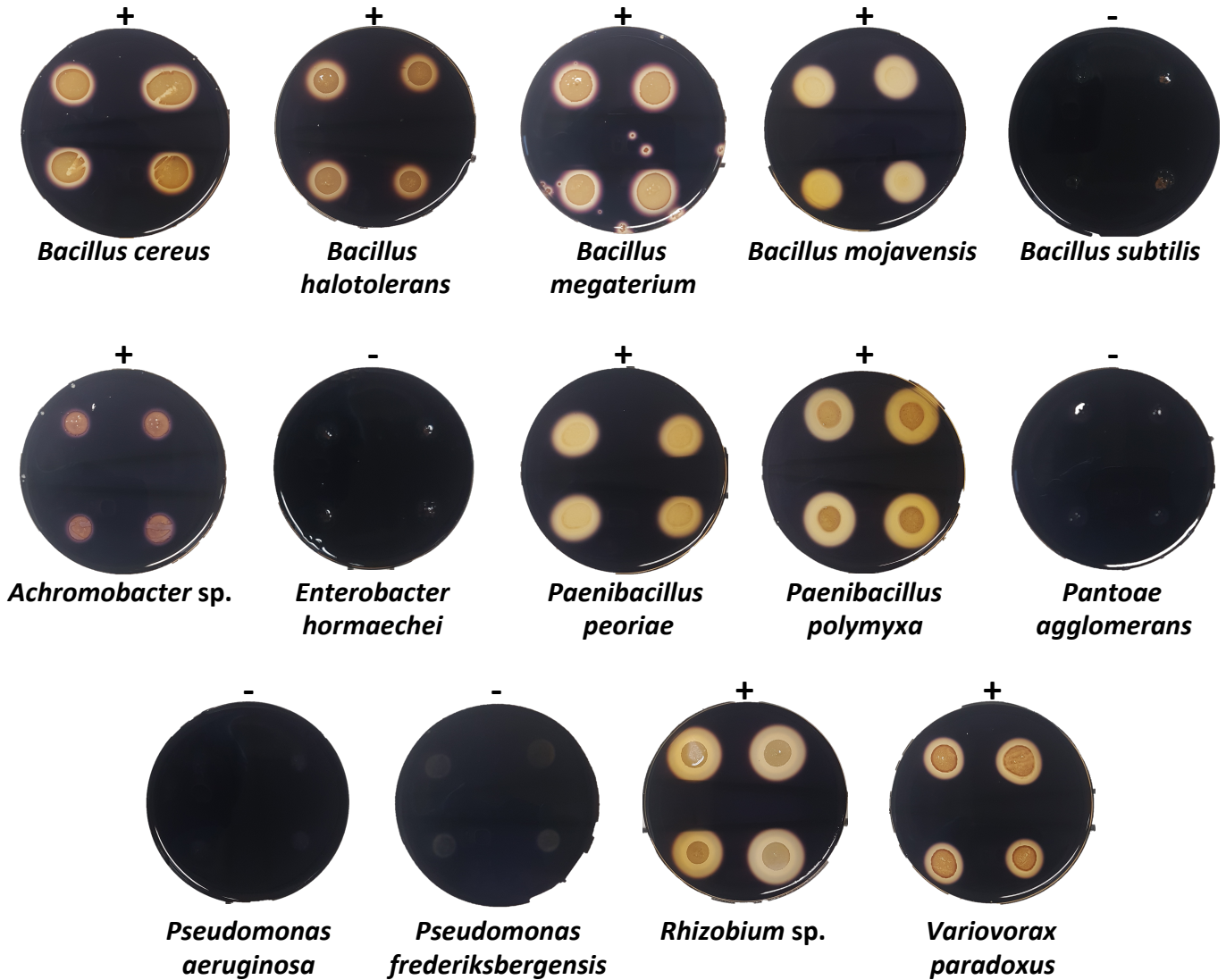
- Dual confrontation Rhizobacteria/*F. culmorum* in axenic condition
- Amylase activity
- Catalase activity
- Cellulase activity
- Pectinase activity
- Protease activity

Dual confrontation





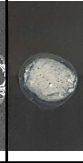


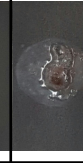





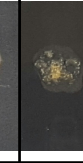
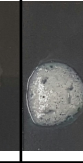
Effect of root endophytic bacterial strains on the growth kinetic of *Fusarium culmorum* in axenic culture. ("-" ») No inhibition; ("+") Positive inhibition. On either side of the red line, are shown the macroscopic aspects of the microorganisms that can be observed from upper (right) or back side (left) of the culture plates. Strain confrontations were recorded 5 days after microorganism development at 25°C on PDA medium. The scale bar in the last photograph represents 1 cm.

Amylase activity



Semi-quantitative calibration of Amylase activity for each bacterial endophyte isolated on roots from the old wheat variety Florence Aurore. (" - ") Negative Amylase activity; (" + ") Positive Amylase activity, materialized by a translucent zone around the bacterial colonies.

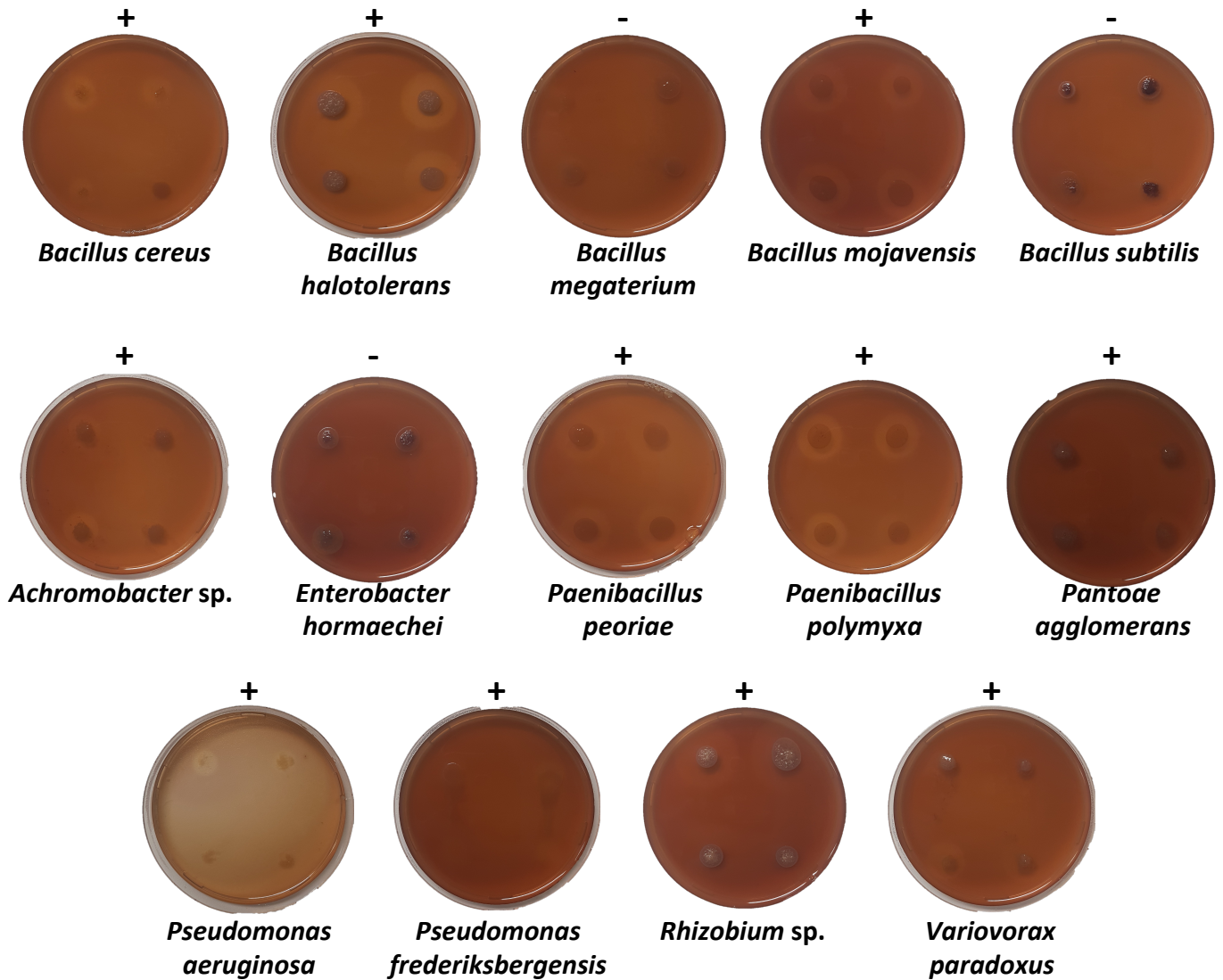
Catalase activity

	Control (water)	Achromobacter sp.	Bacillus cereus	Bacillus halotolerans	Bacillus megaterium	Bacillus Mojavensis	Bacillus subtilis	Enterobacter hormaechei	Paenibacillus peoriae	Pantoea agglomerans	Pseudomonas aeruginosa	Rhizobium sp.	Variovorax paradoxus	
	<u>Catalase activity</u>													
/	+	+	+	+	+	+	+	+	+	+	+	+	+	+
/														

Semi-quantitative calibration of Catalase activity for each bacterial endophyte isolated on roots from the old wheat variety Florence Aurore. ("-") Negative Catalase activity; ("+") Positive Catalase activity, materialized by the production of O₂ bubbles. The bacteria were taken from a fresh colony and placed on a petri slide in the presence of hydrogen peroxide.

Fig S3.

Cellulase activity

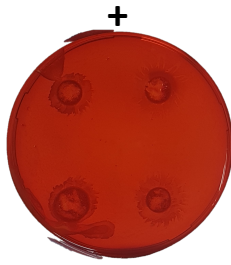


Semi-quantitative calibration of Cellulase activity for each bacterial endophyte isolated on roots from the old wheat variety Florence Aurore. (" - ") Negative Cellulase activity, (" + ") Positive Cellulase activity, materialized by a translucent zone around the bacterial colonies.

Pectinase activity



Bacillus cereus



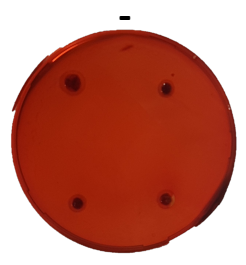
Bacillus halotolerans



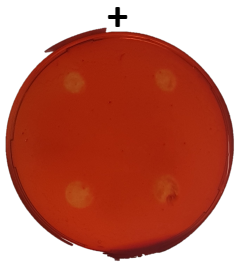
Bacillus megaterium



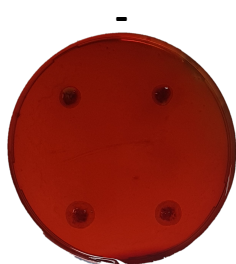
Bacillus mojavensis



Bacillus subtilis



Achromobacter sp.



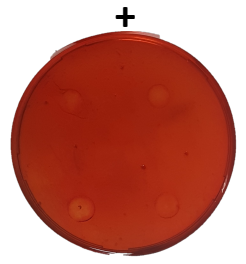
Enterobacter hormaechei



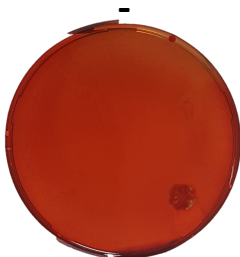
Paenibacillus peoriae



Paenibacillus polymyxa



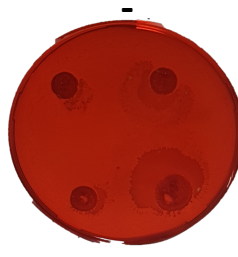
Pantoae agglomerans



Pseudomonas aeruginosa



Pseudomonas frederiksbergensis



Rhizobium sp.



Variovorax paradoxus

Semi-quantitative calibration of Pectinase activity for each bacterial endophyte isolated on roots from the old wheat variety Florence Aurore. (" - ") Negative Pectinase activity; (" + ") Positive Pectinase activity, materialized by a translucent zone around the bacterial colonies.

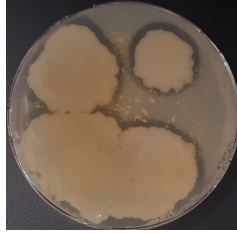
Protease activity

+



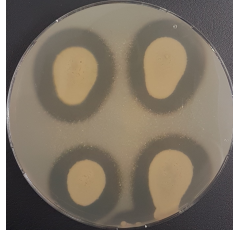
Bacillus cereus

+



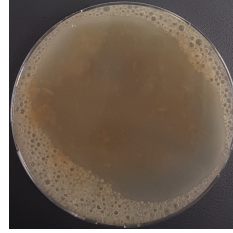
Bacillus halotolerans

+



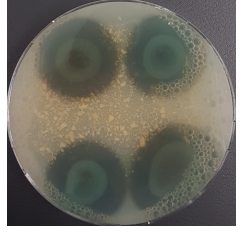
Bacillus megaterium

-



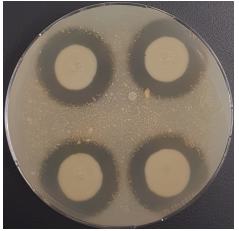
Bacillus mojavensis

+



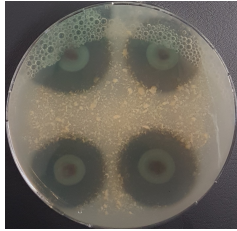
Bacillus subtilis

+



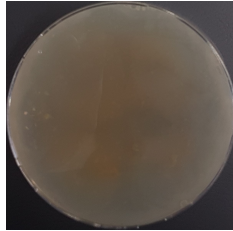
Achromobacter sp.

+



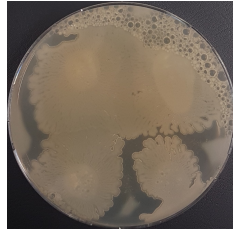
Enterobacter hormaechei

-



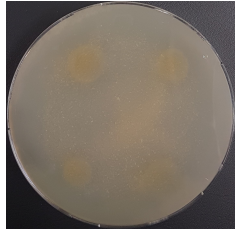
Paenibacillus peoriae

-



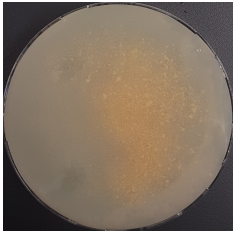
Paenibacillus polymyxa

-



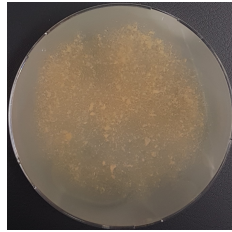
Pantoae agglomerans

-



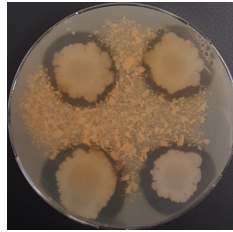
Pseudomonas aeruginosa

-



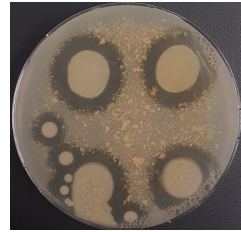
Pseudomonas frederiksbergensis

+



Rhizobium sp.

+



Variovorax paradoxus

Semi-quantitative calibration of Protease activity for each bacterial endophyte isolated on roots from the old wheat variety Florence Aurore. ("-") Negative Protease activity; ("+") Positive Protease activity, materialized by a translucent zone around the bacterial colonies.