

1/20

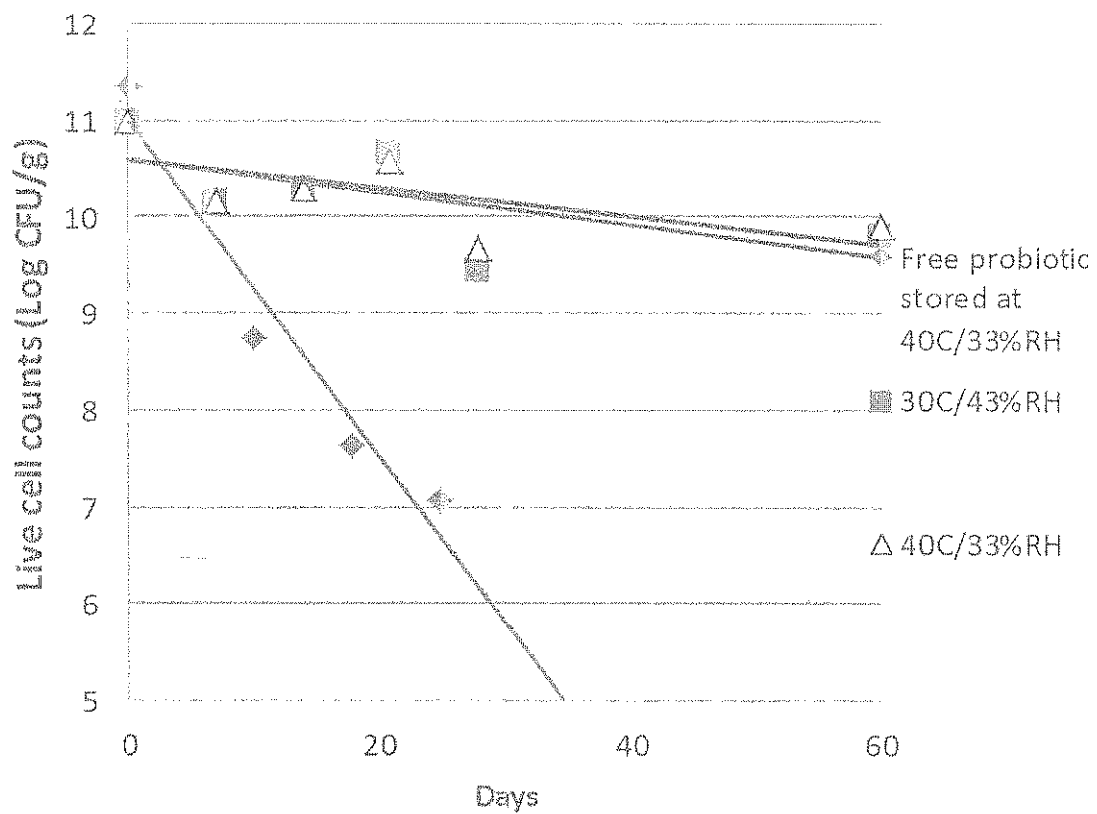


FIG. 1

2/20

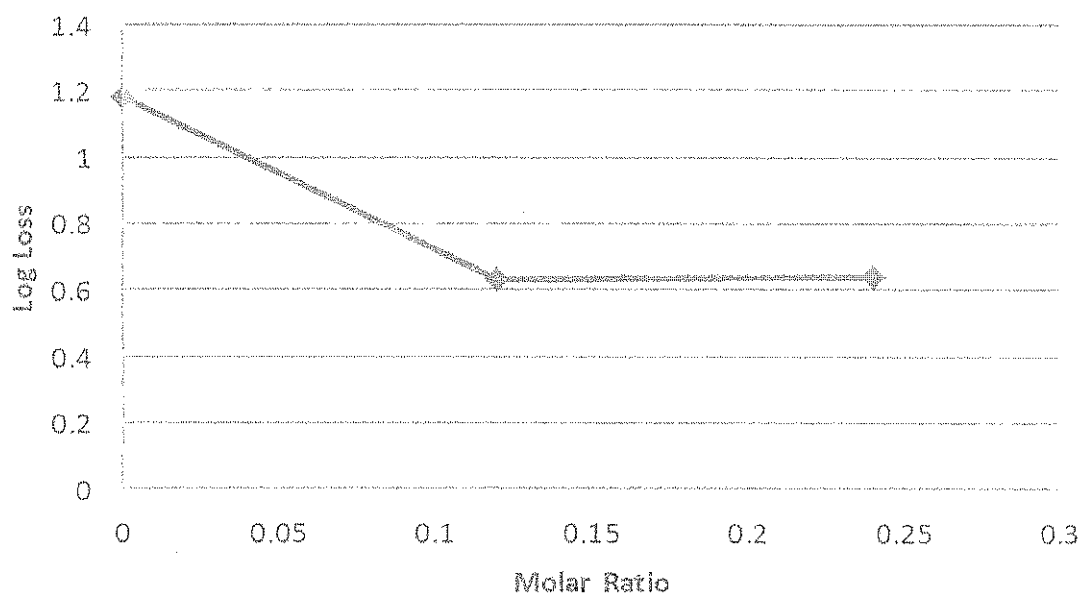


FIG. 2

3/20

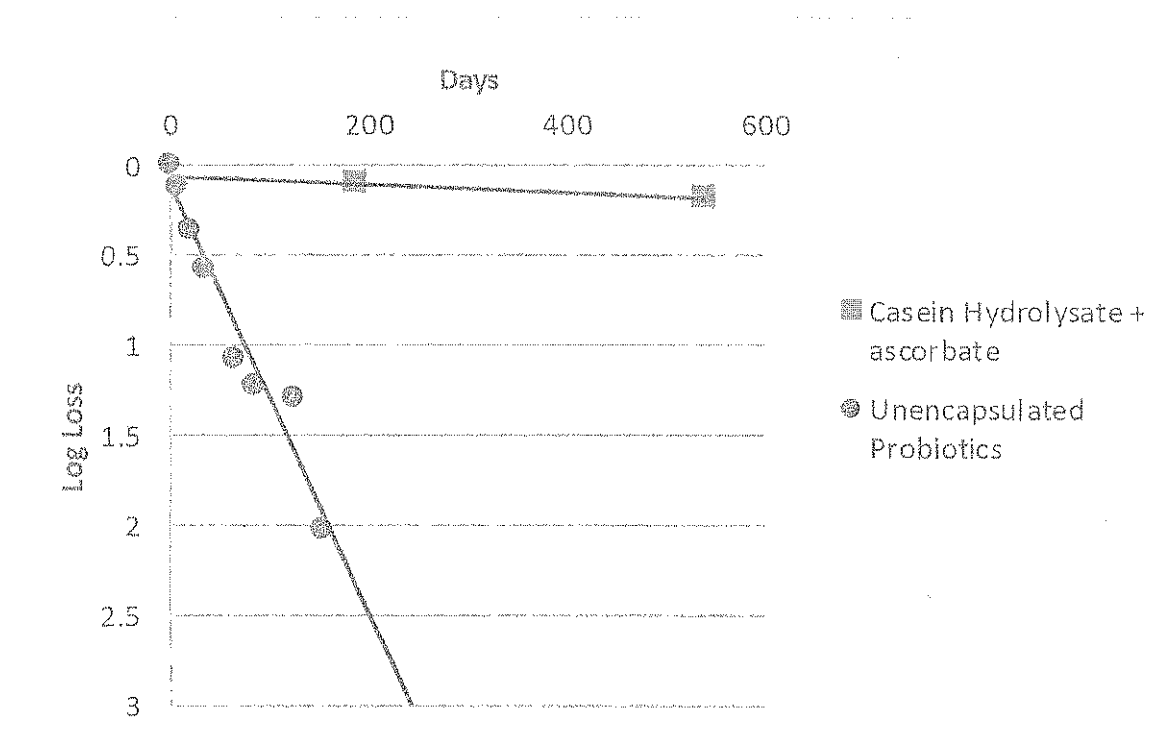


FIG. 3

4/20

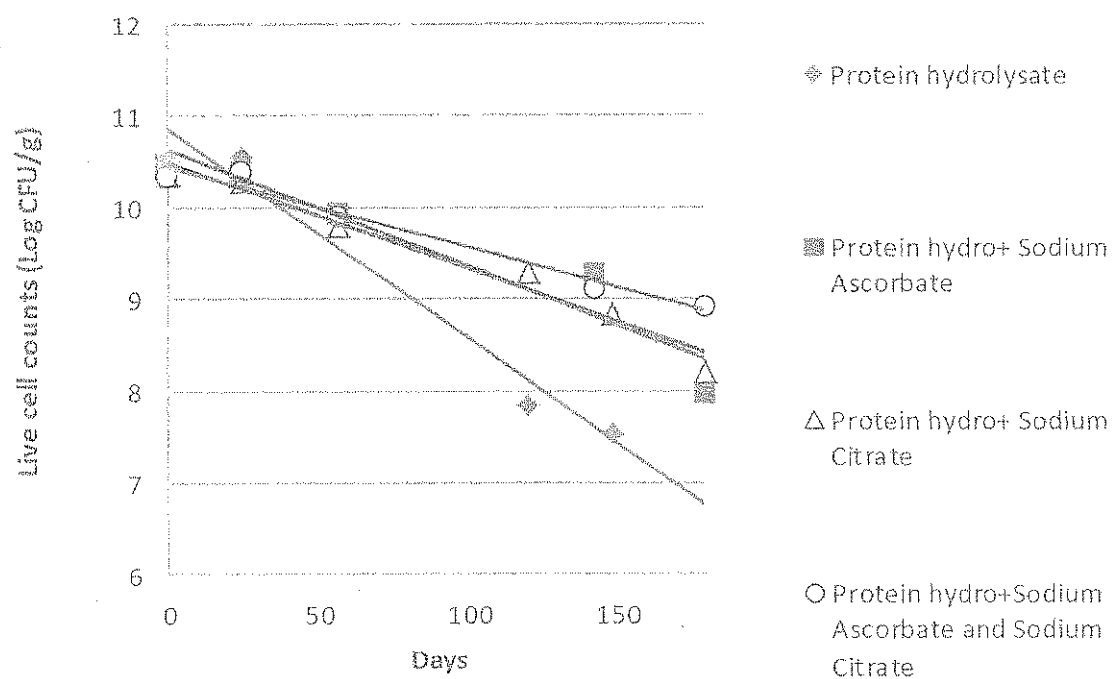


FIG. 4

5/20

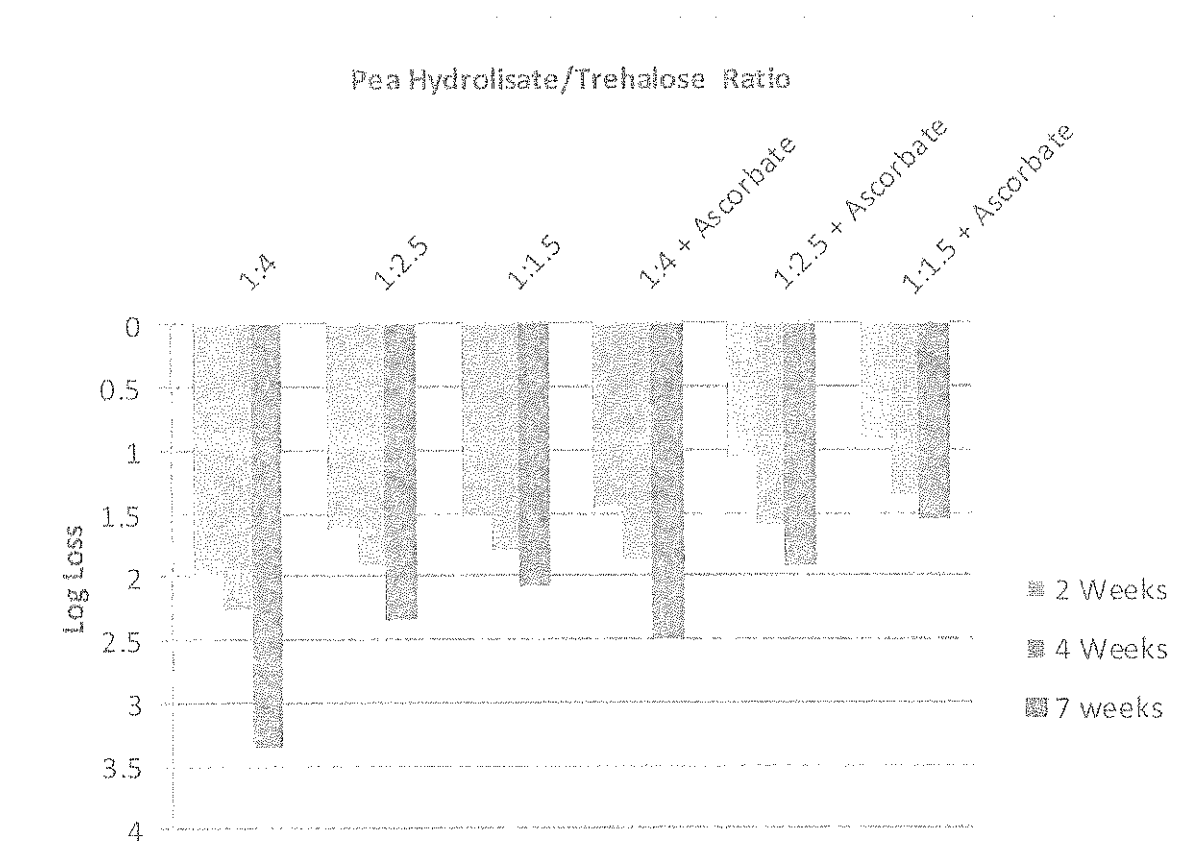


FIG. 5

6/20

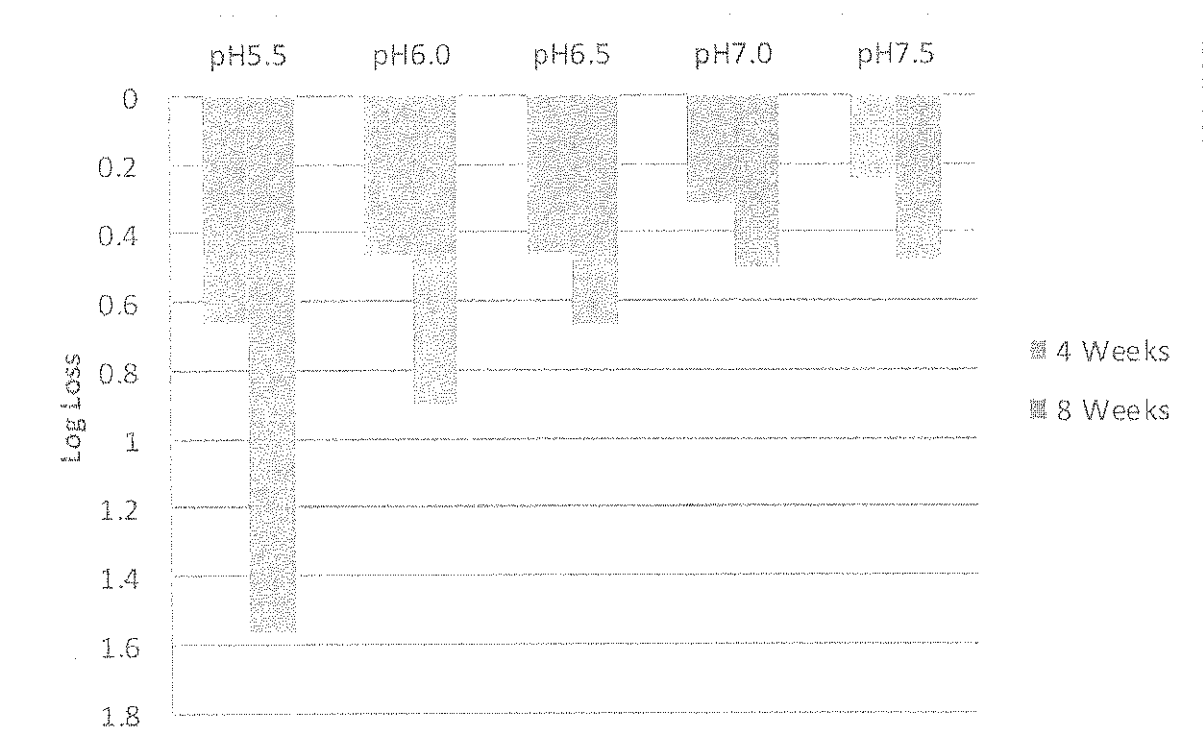


FIG. 6

7/20

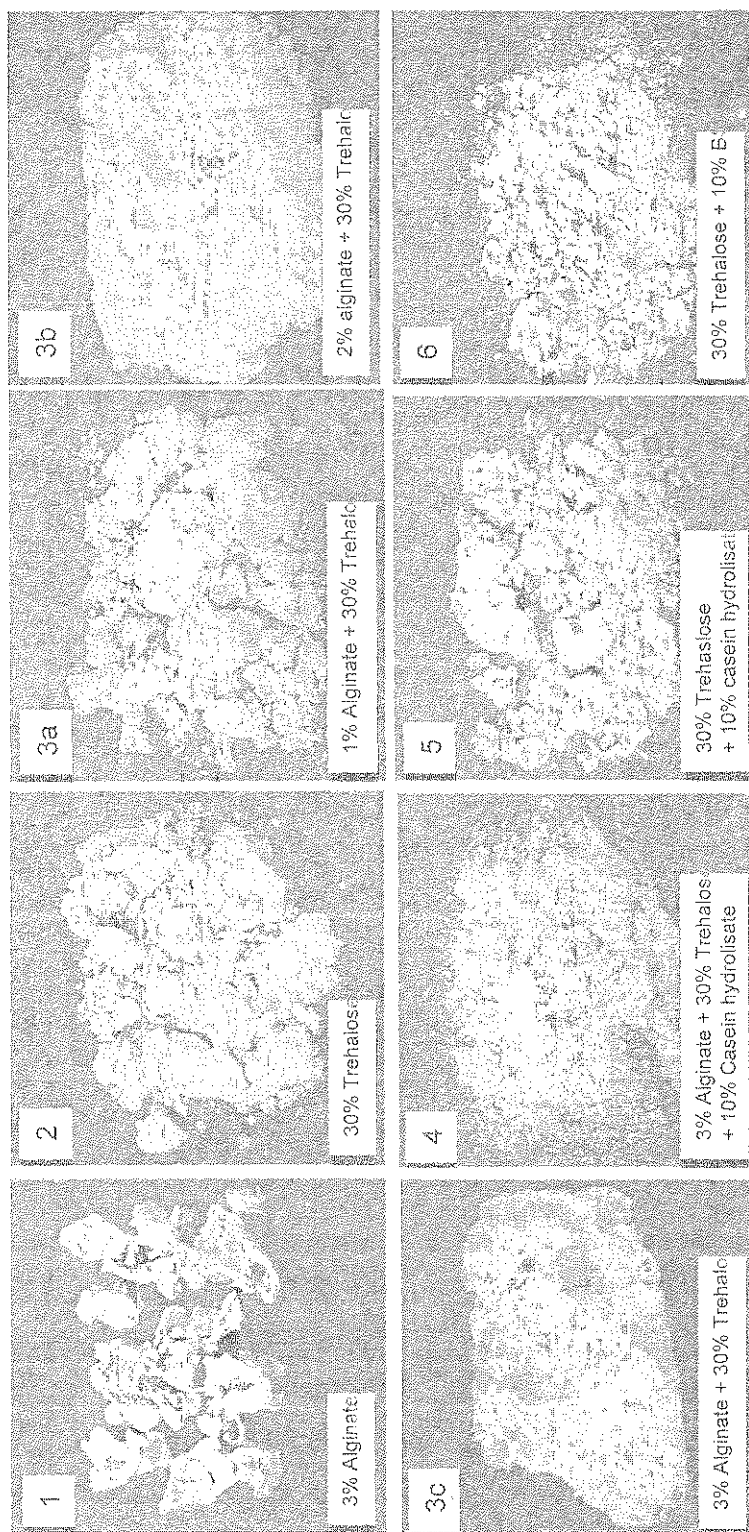


FIG. 7

8/20

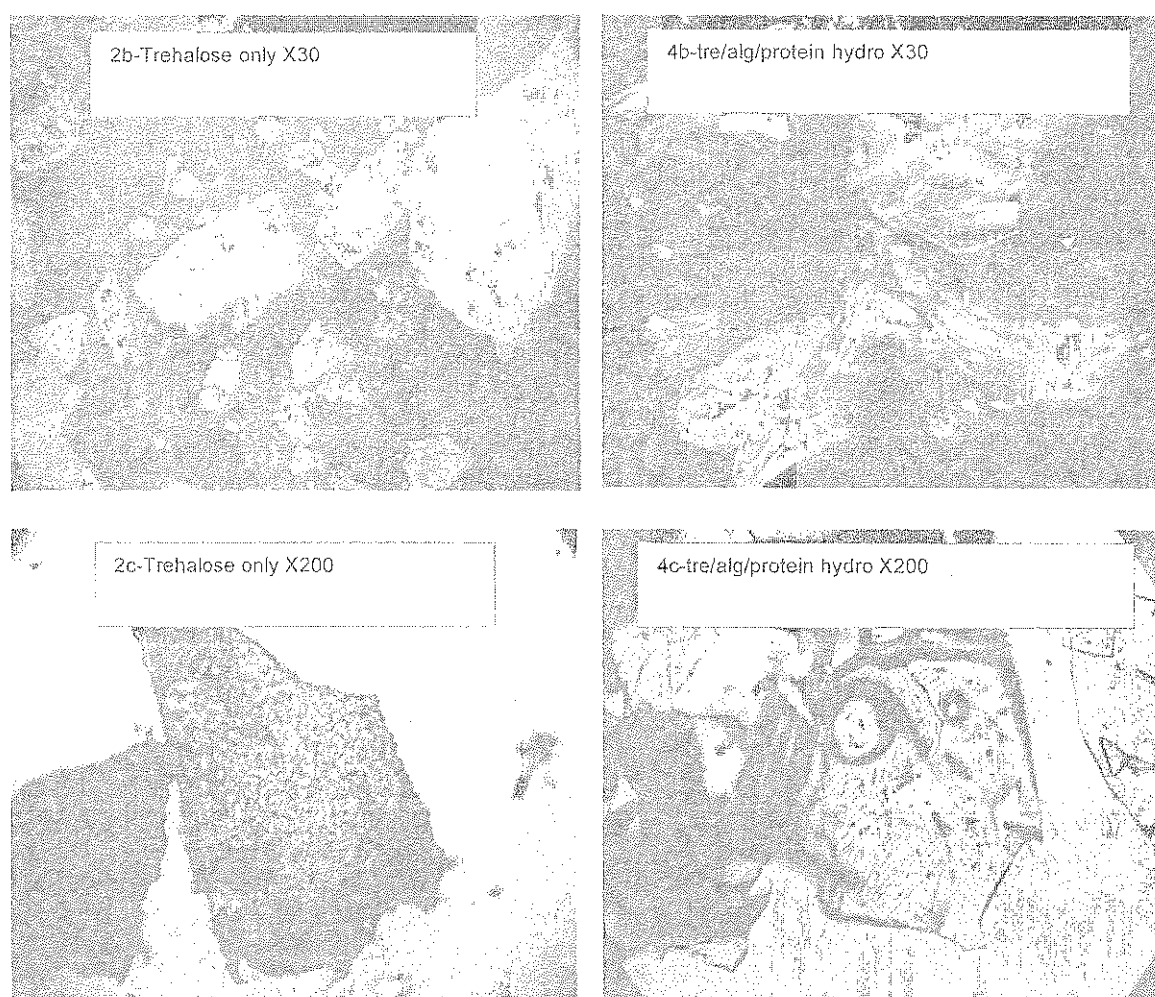


FIG. 8

9/20

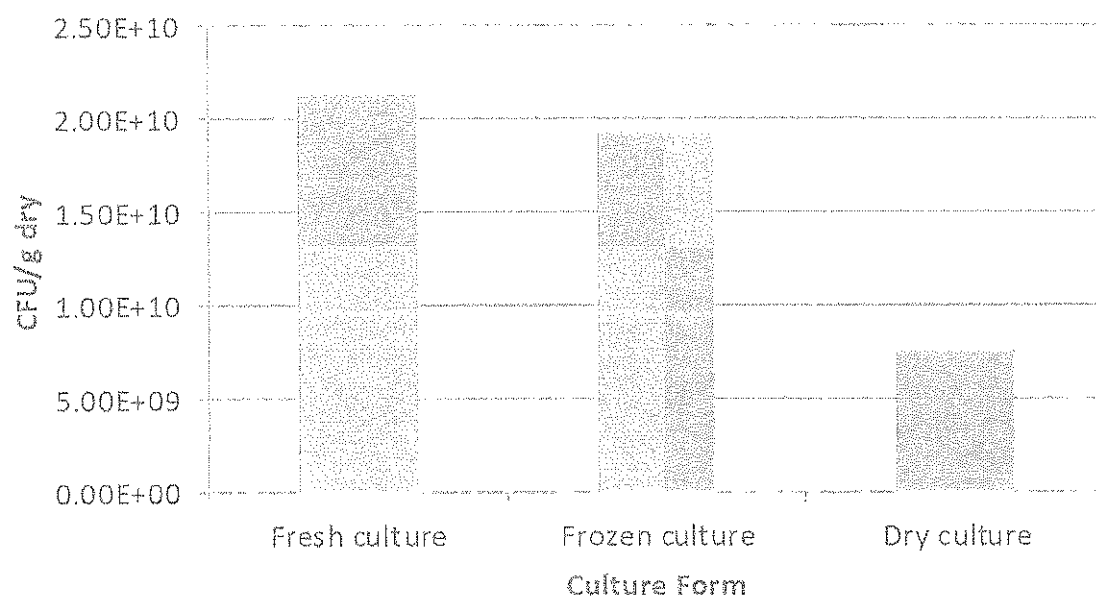


FIG. 9

10/20

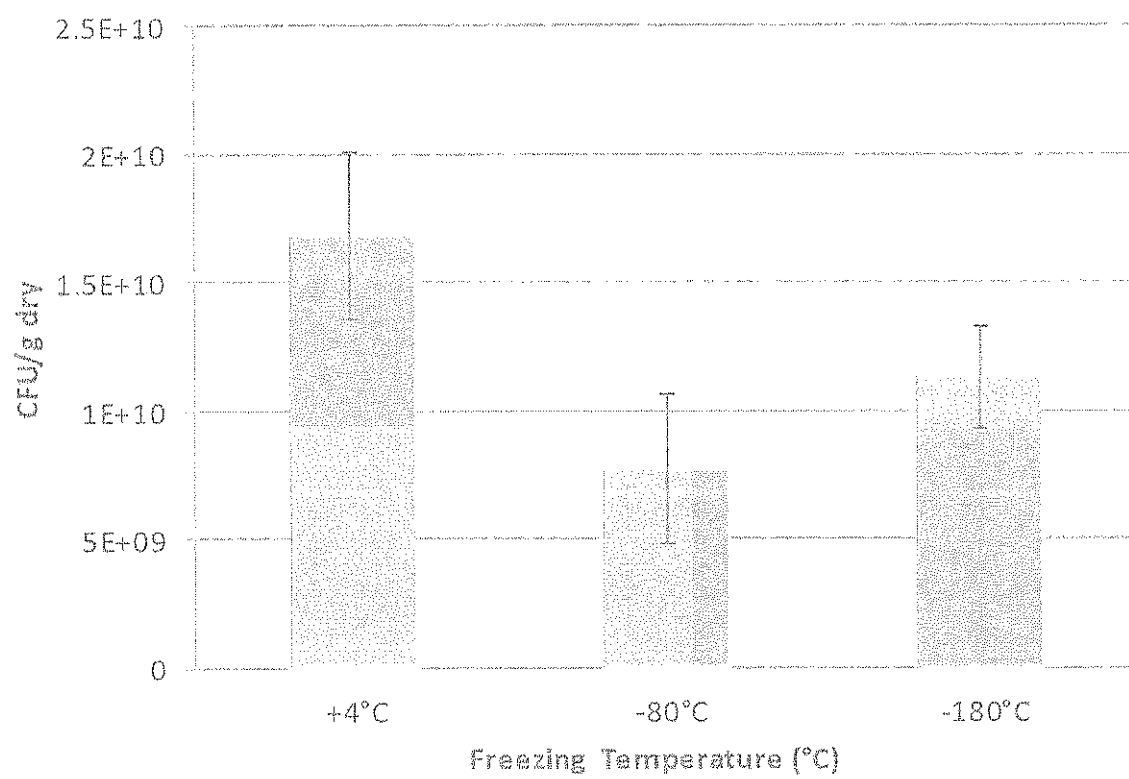


FIG. 10

11/20

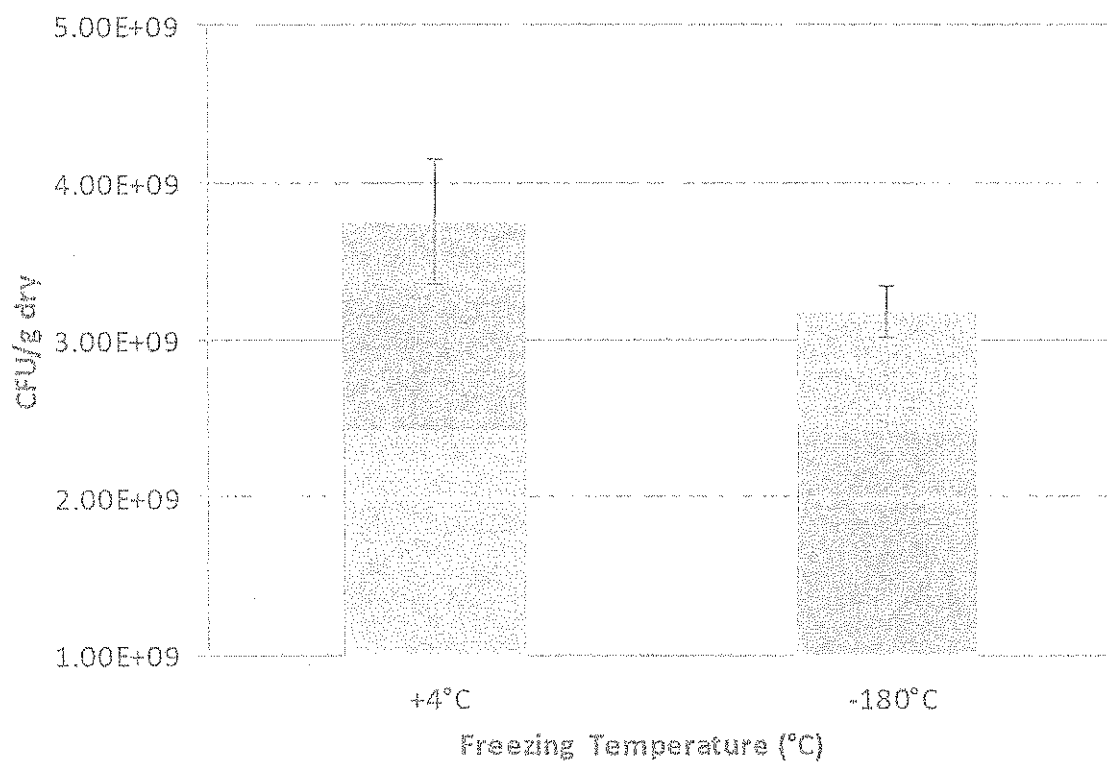


FIG. 11

12/20

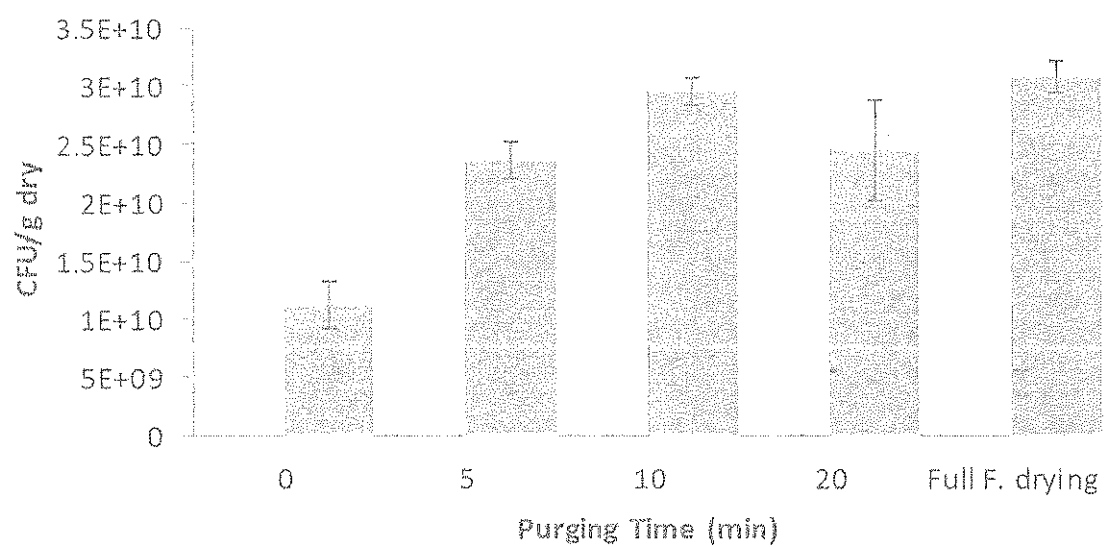


FIG. 12

13/20

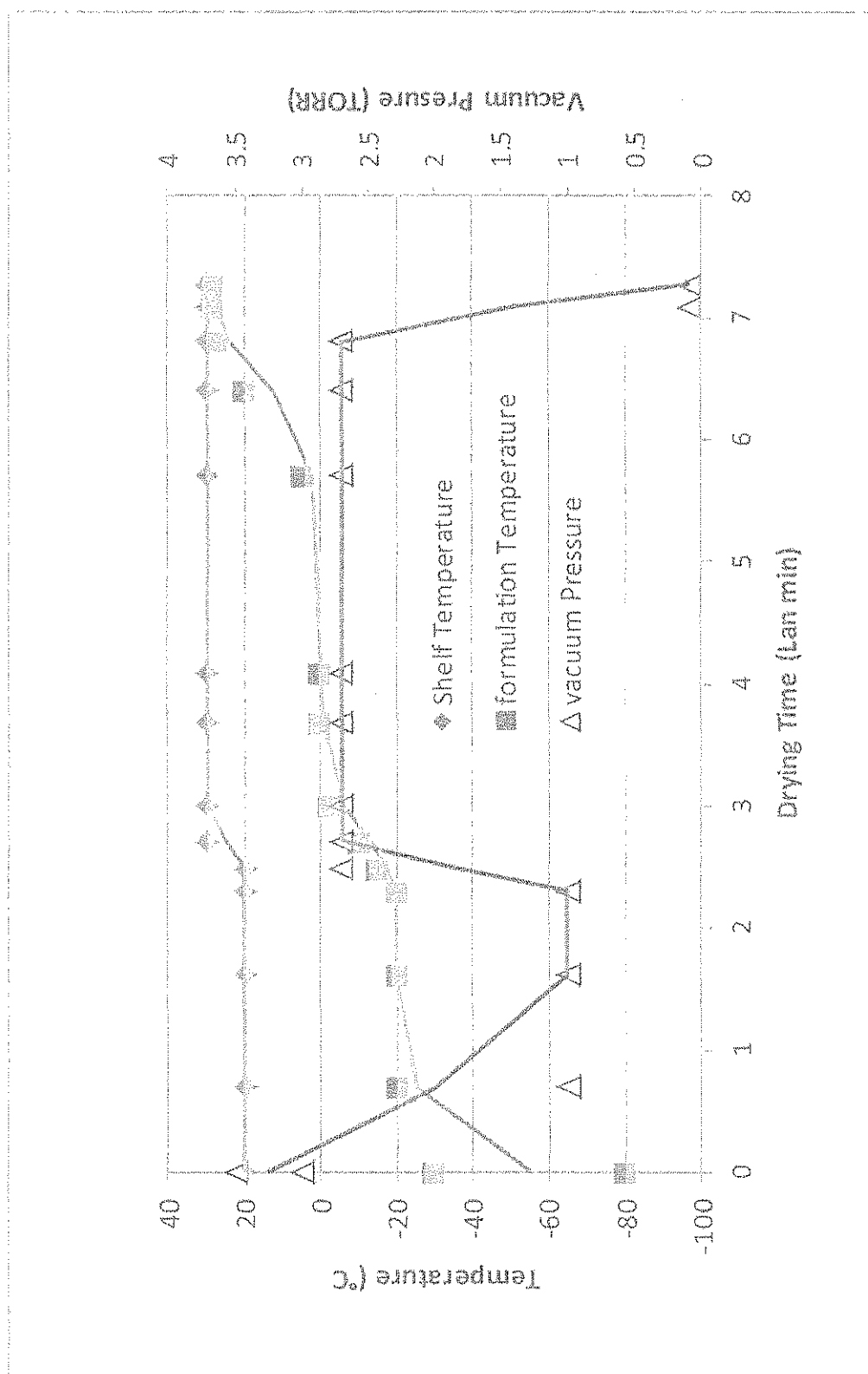


FIG. 13

14/20

Process loss of *L. rhamnosus*
during drying of different culture types
and at different freezing temperatures

Culture Type	Log loss
Frozen culture	0.91
dry Culture	0.44
Freezing Temperature	
+4°C	0.73
-80°C	0.96
-180°C	0.9

* the losses for freezing temperatures
were evaluated on frozen bacterial cultures
**Procees losses were obtained after
drying with no additional purging step.

FIG. 14

15/20

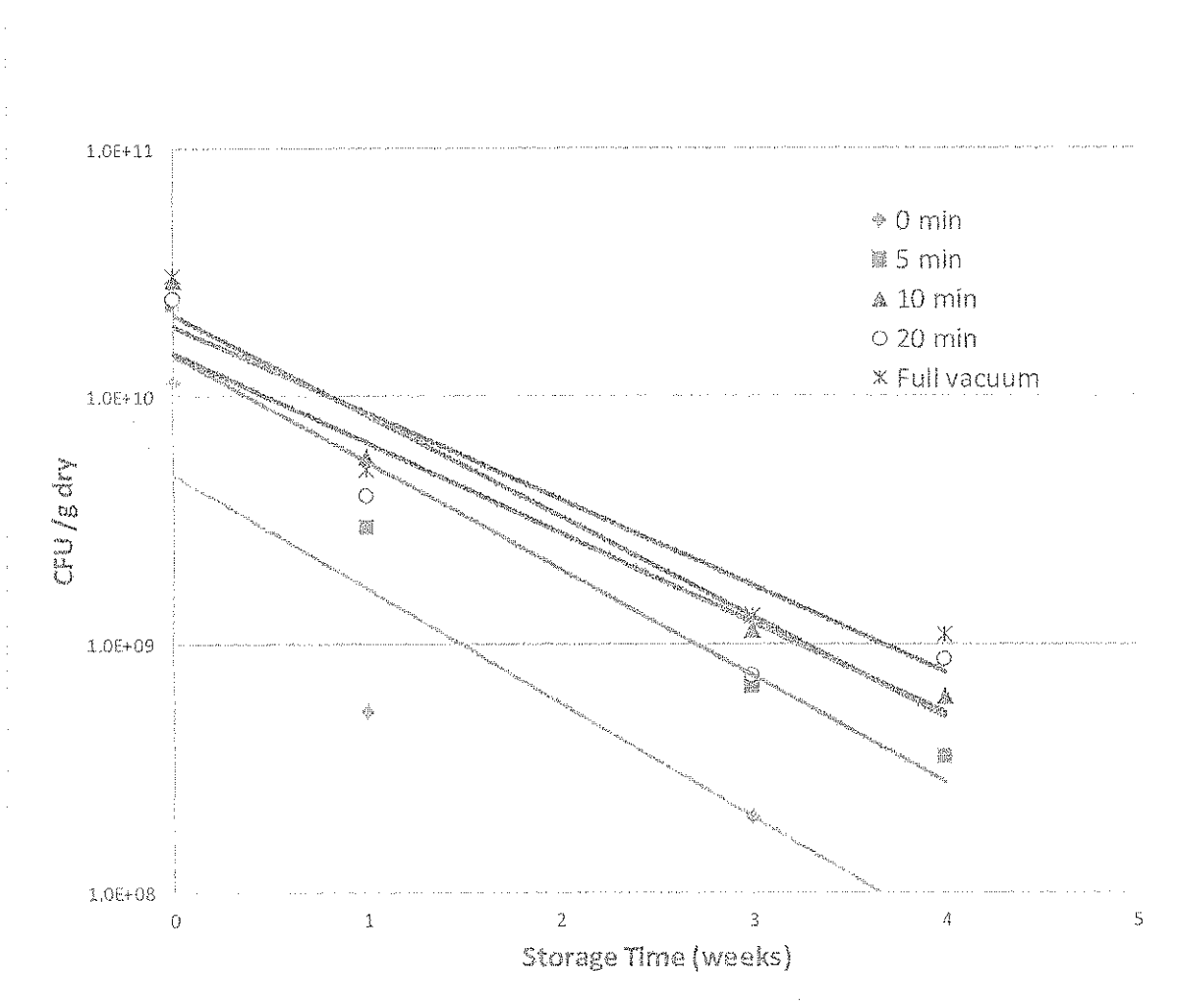


FIG. 15

16/20

Shelf storage stability at 40°C and 43% RH of commonly freeze dried *L. acidophilus* sp. or after formulating in the composition and methods of the present invention.

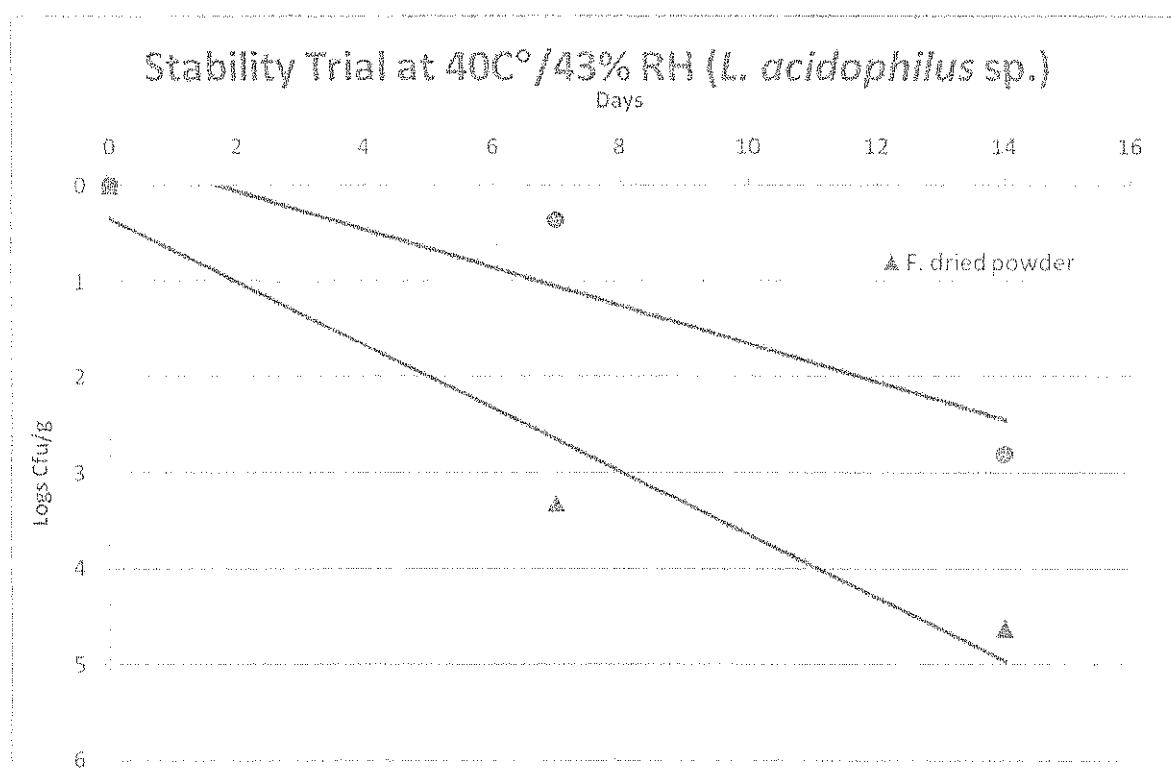


FIG. 16

17/20

Shelf storage stability at 40°C and 43% RH and 30°C and 60% RH of commonly freeze dried *L. rhamnosus* sp. or after formulating in the composition and methods of the present invention.

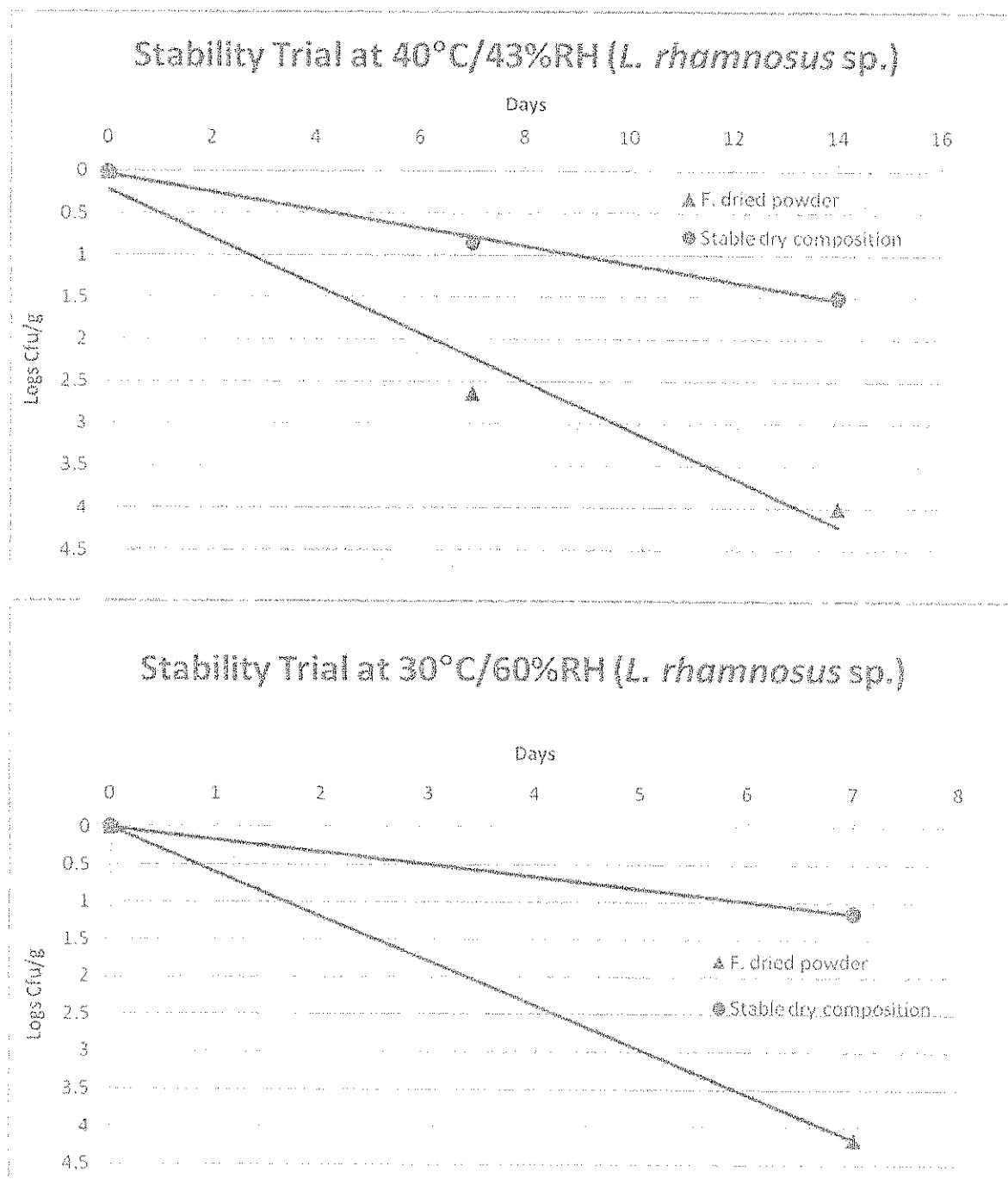


FIG. 17

18/20

Effect of compression in tablet press on viability and storage stability at 40°C and 43% RH of the probiotic *L. rhamnosus* stabilized and protected in the composition of the present invention.

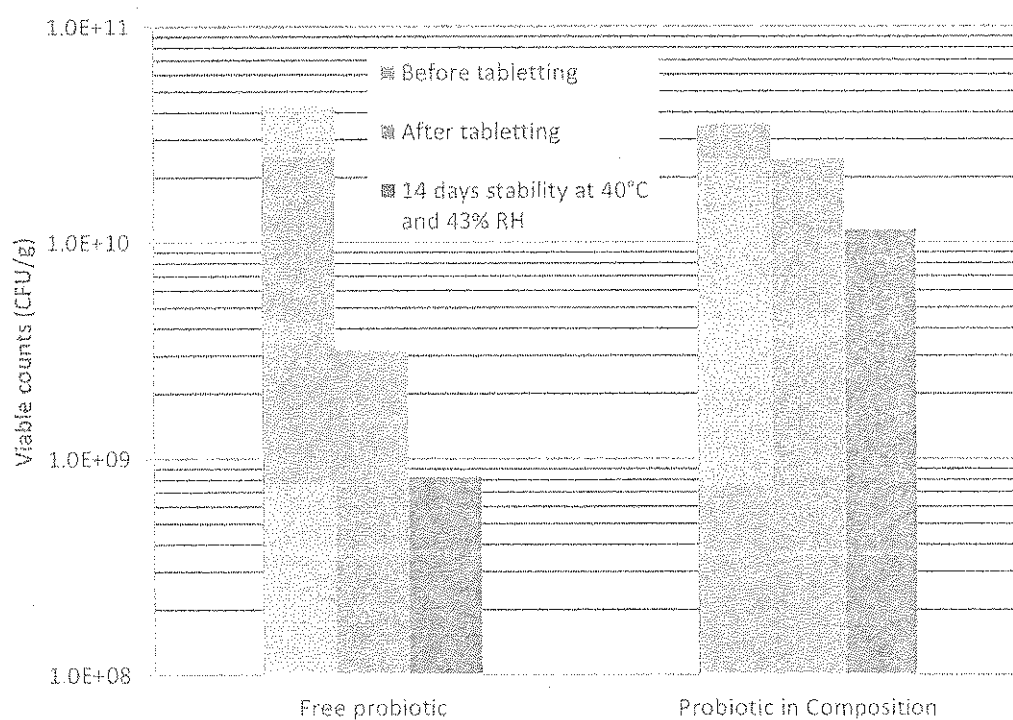


FIG. 18

19/20

Effect of tableting with a mixture of multivitamin and minerals and storage exposure at 40°C and 43% RH on the viability of the probiotic *L. rhamnosus* stabilized and protected in the composition of the present invention.

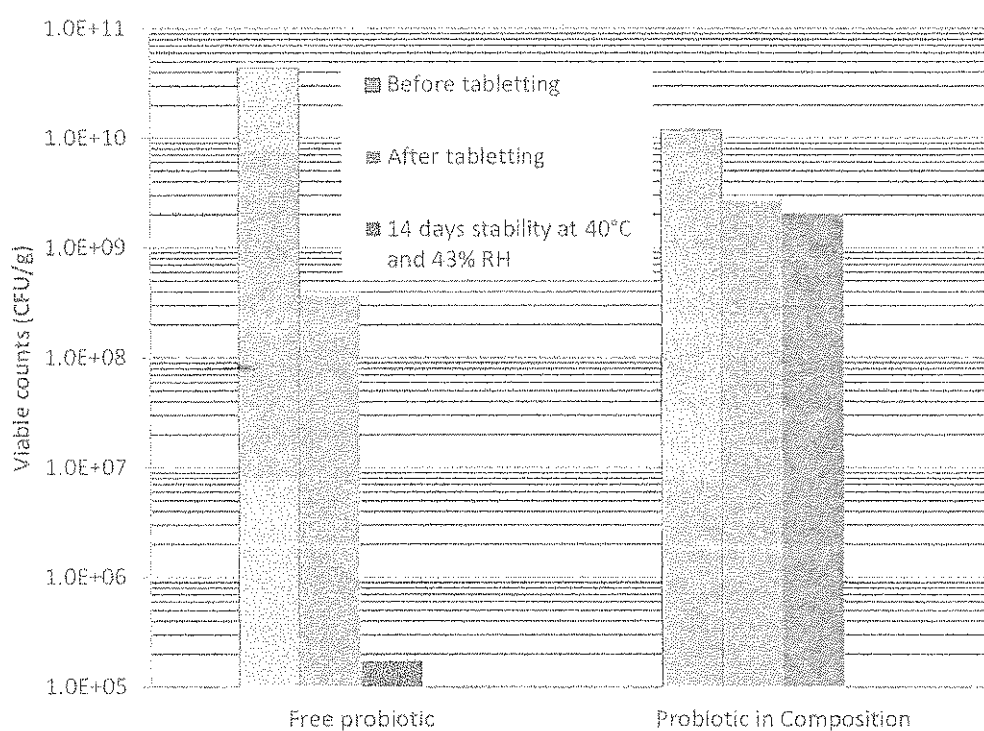


FIG. 19

20/20

Effect of compression in tablet-press on the activity of protease and lipase enzymes in a free form or protected in the composition of the present invention. The enzymes were tableted either individually or mixed in equal amount and then tableted,

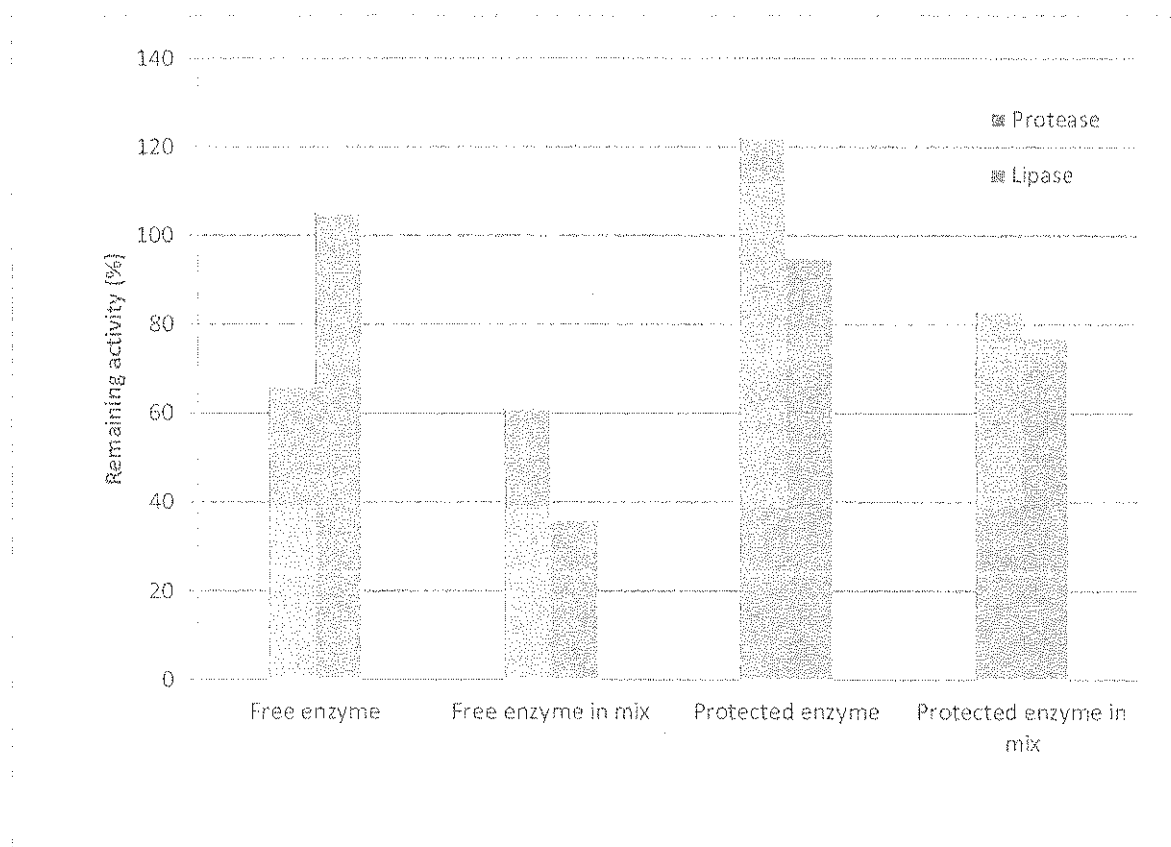


FIG. 20