

1/20

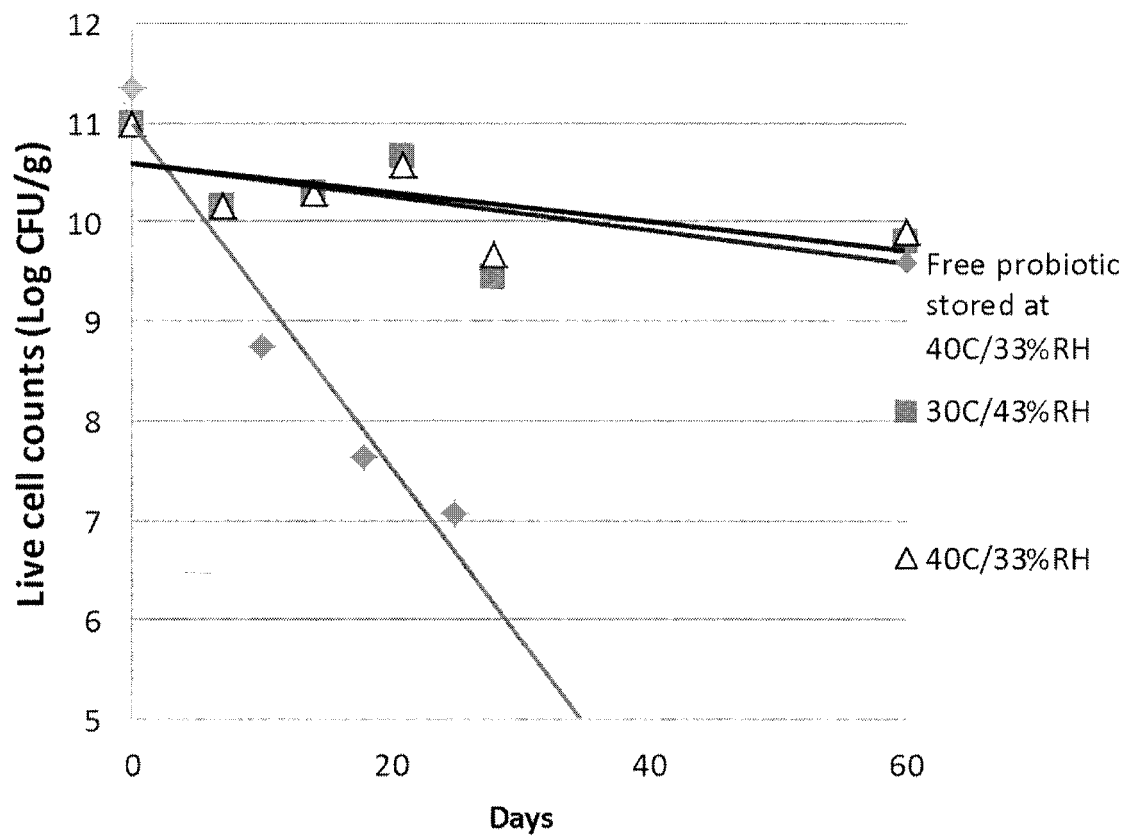


FIG. 1

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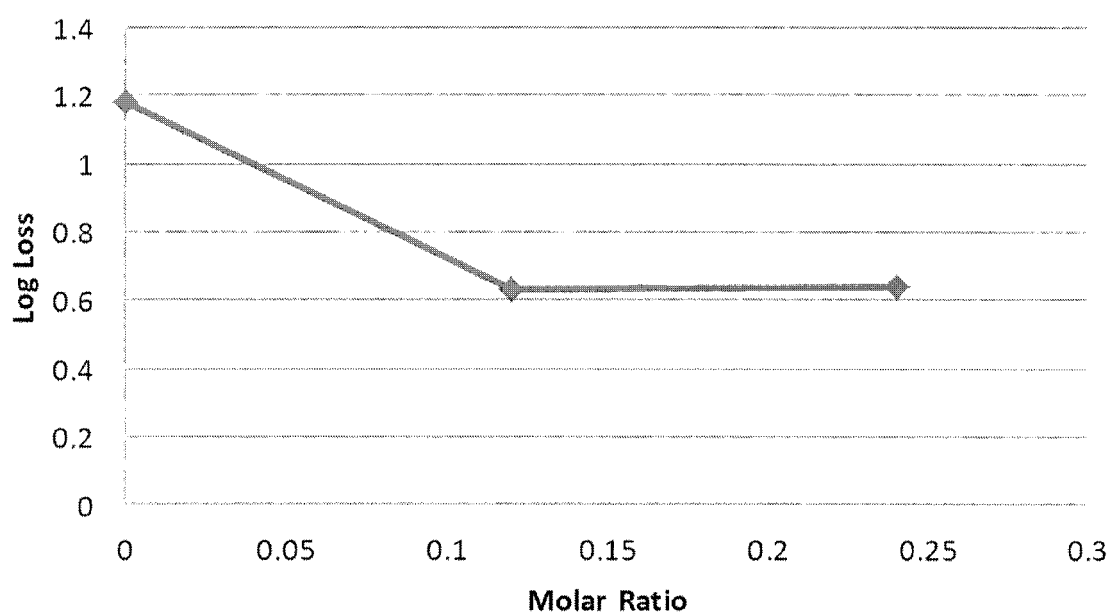


FIG. 2

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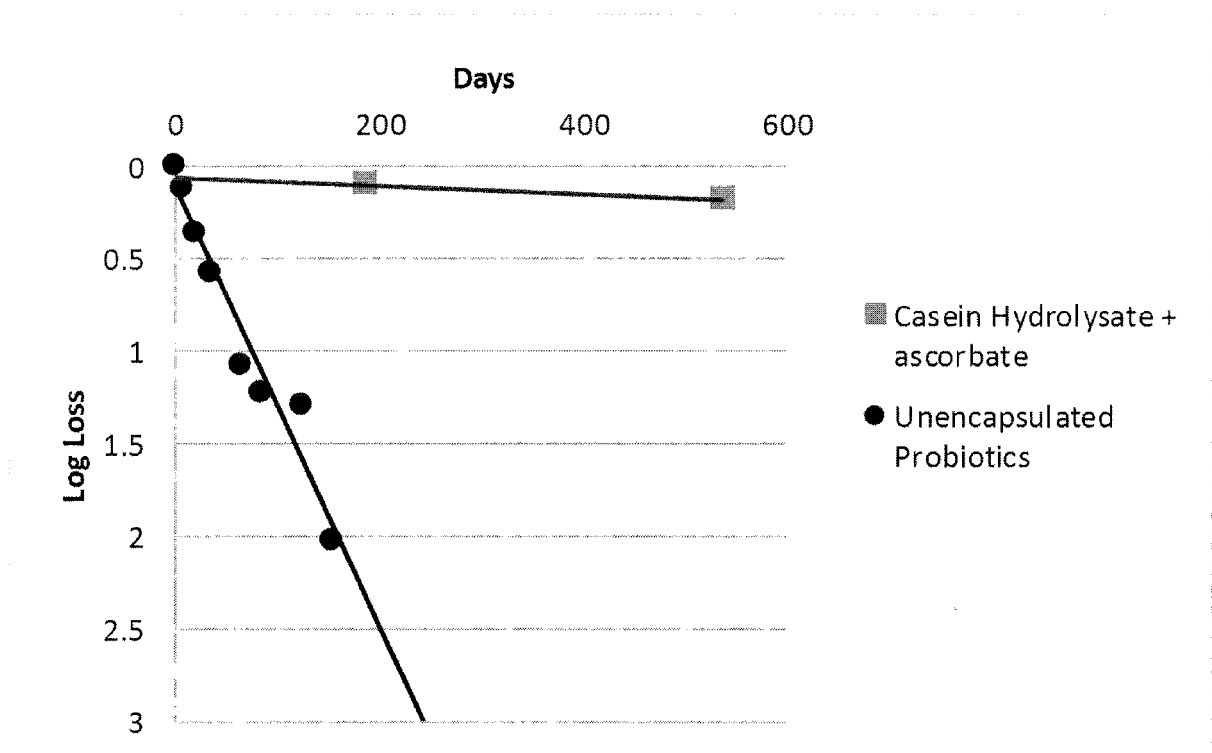


FIG. 3

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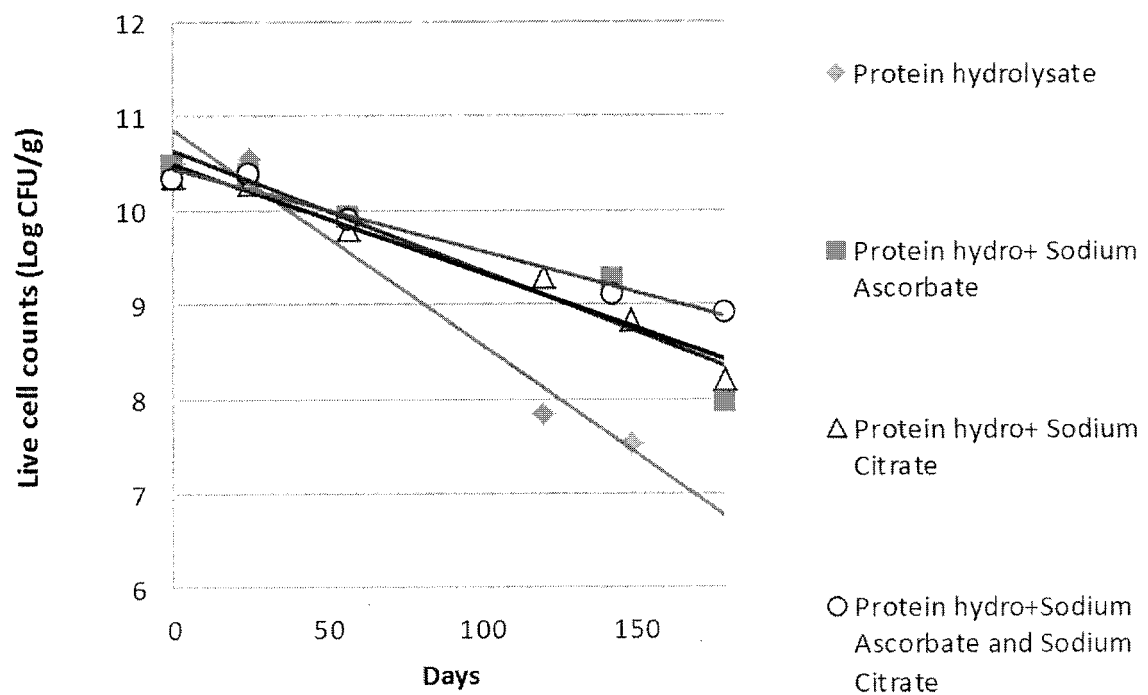


FIG. 4

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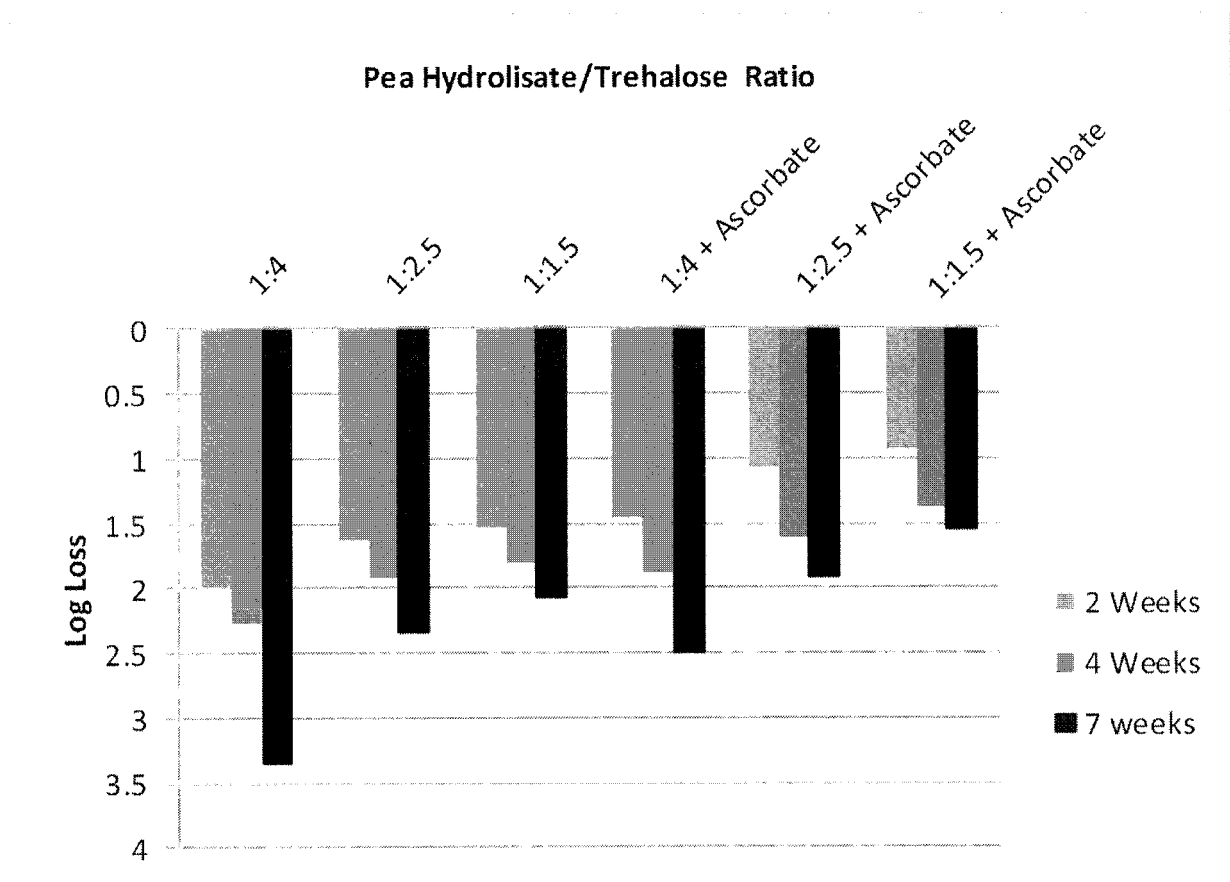


FIG. 5

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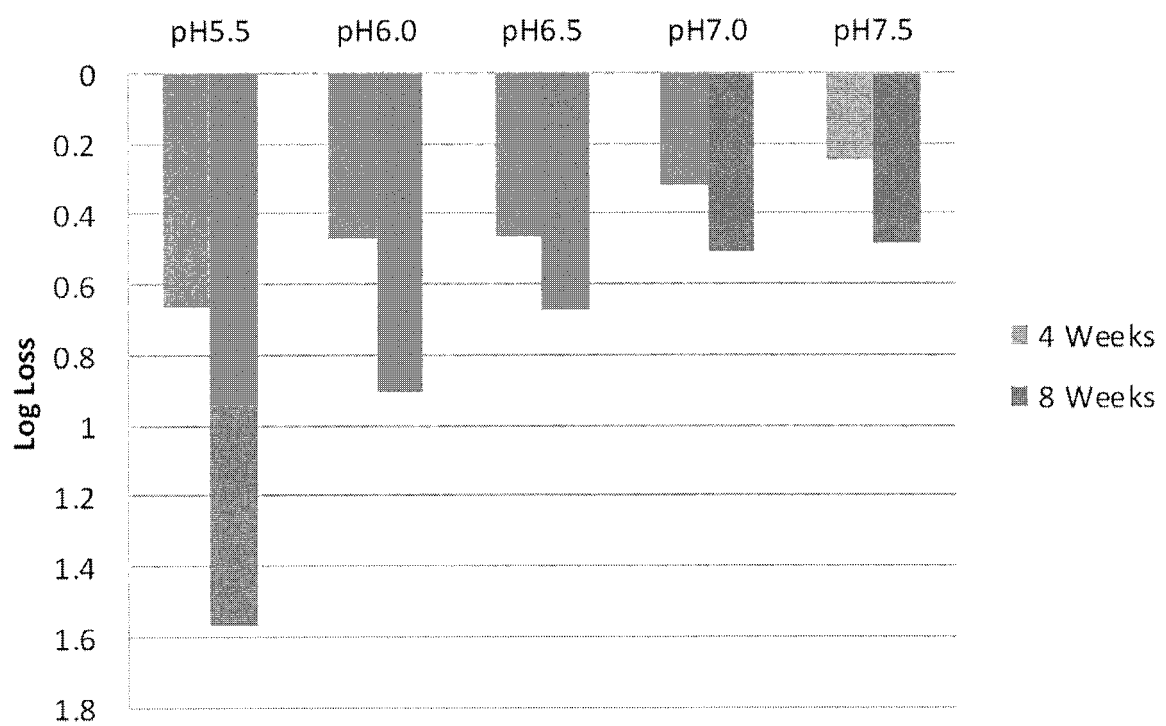


FIG. 6

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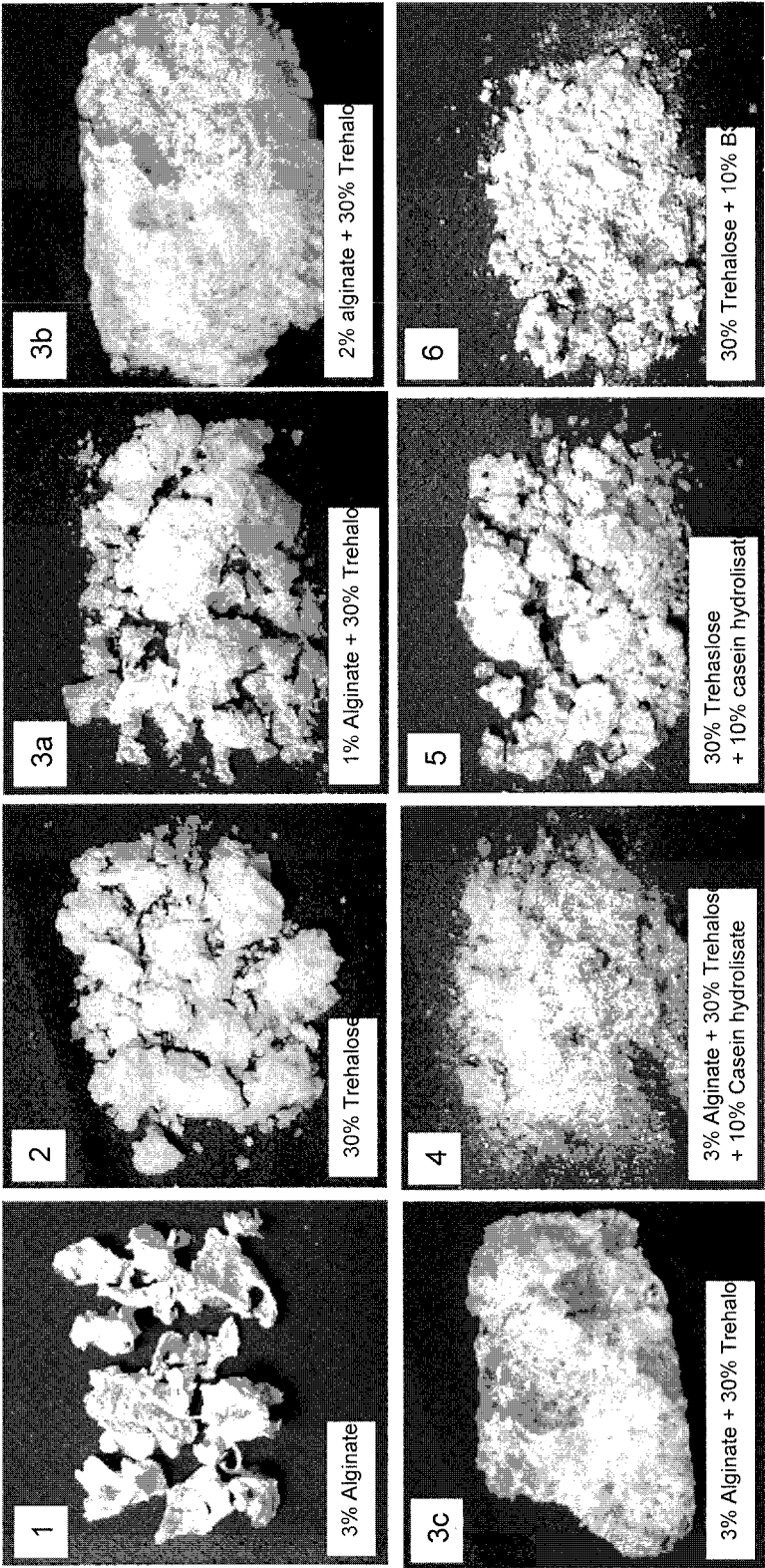


FIG. 7

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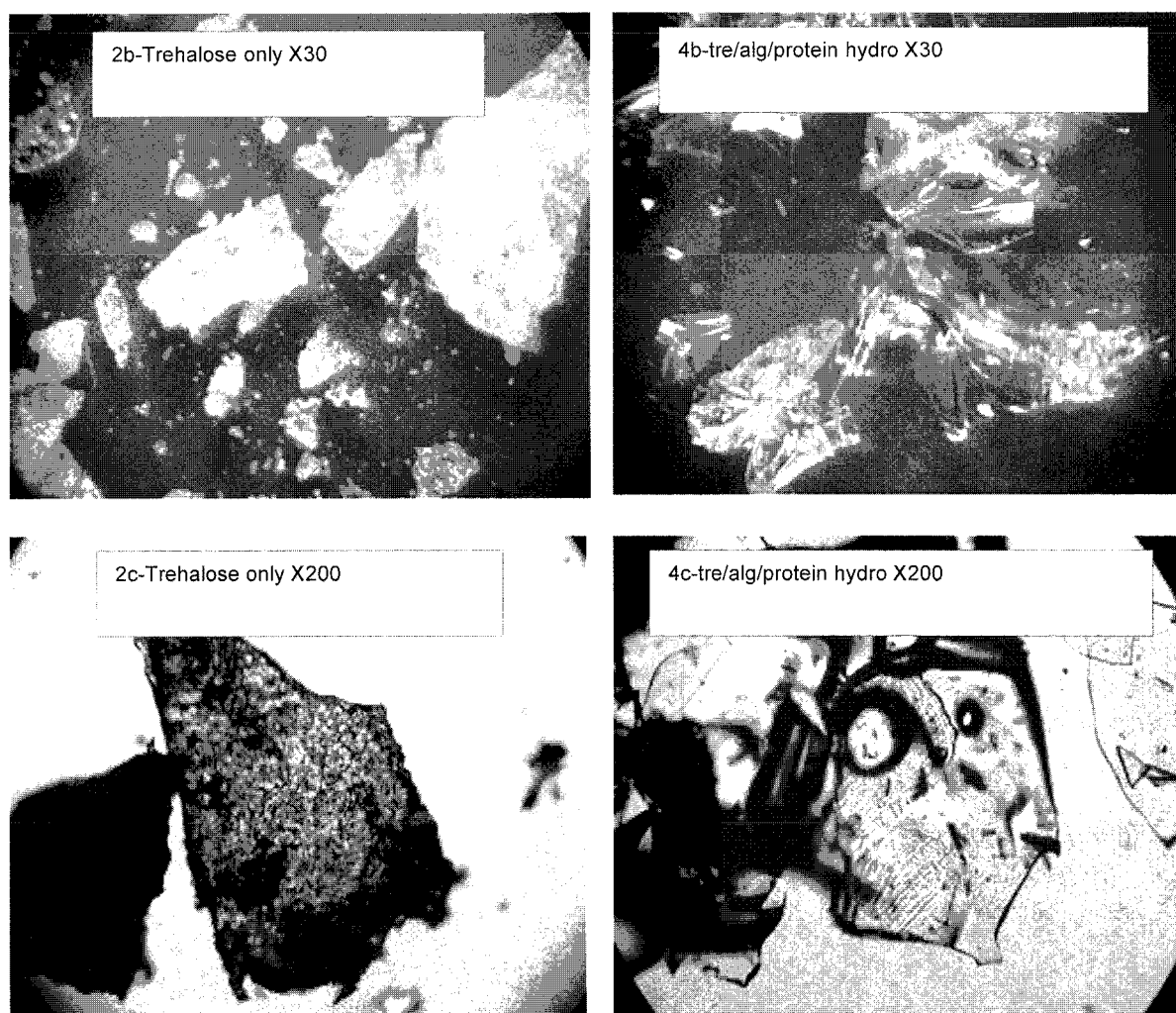


FIG. 8

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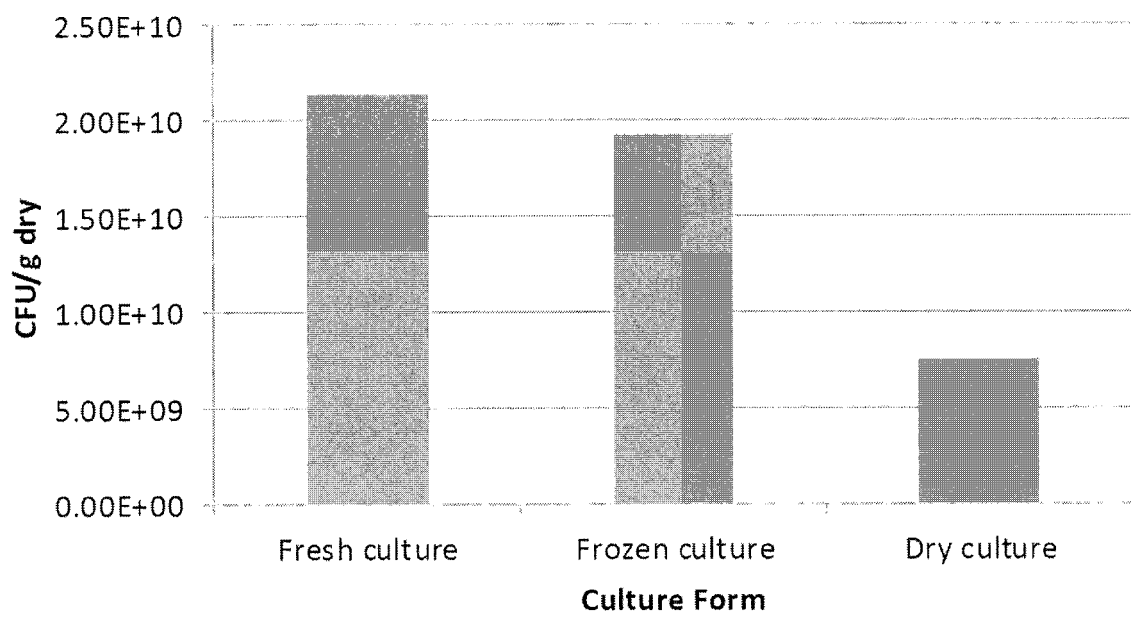


FIG. 9

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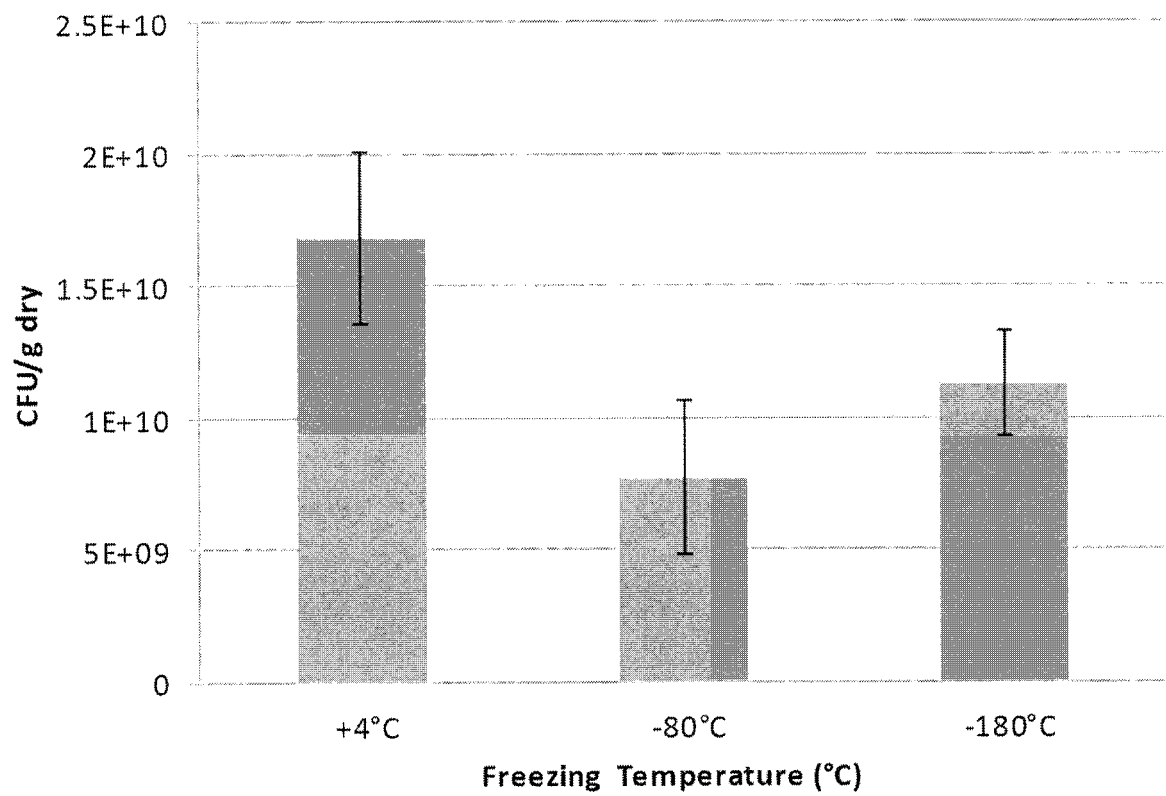


FIG. 10

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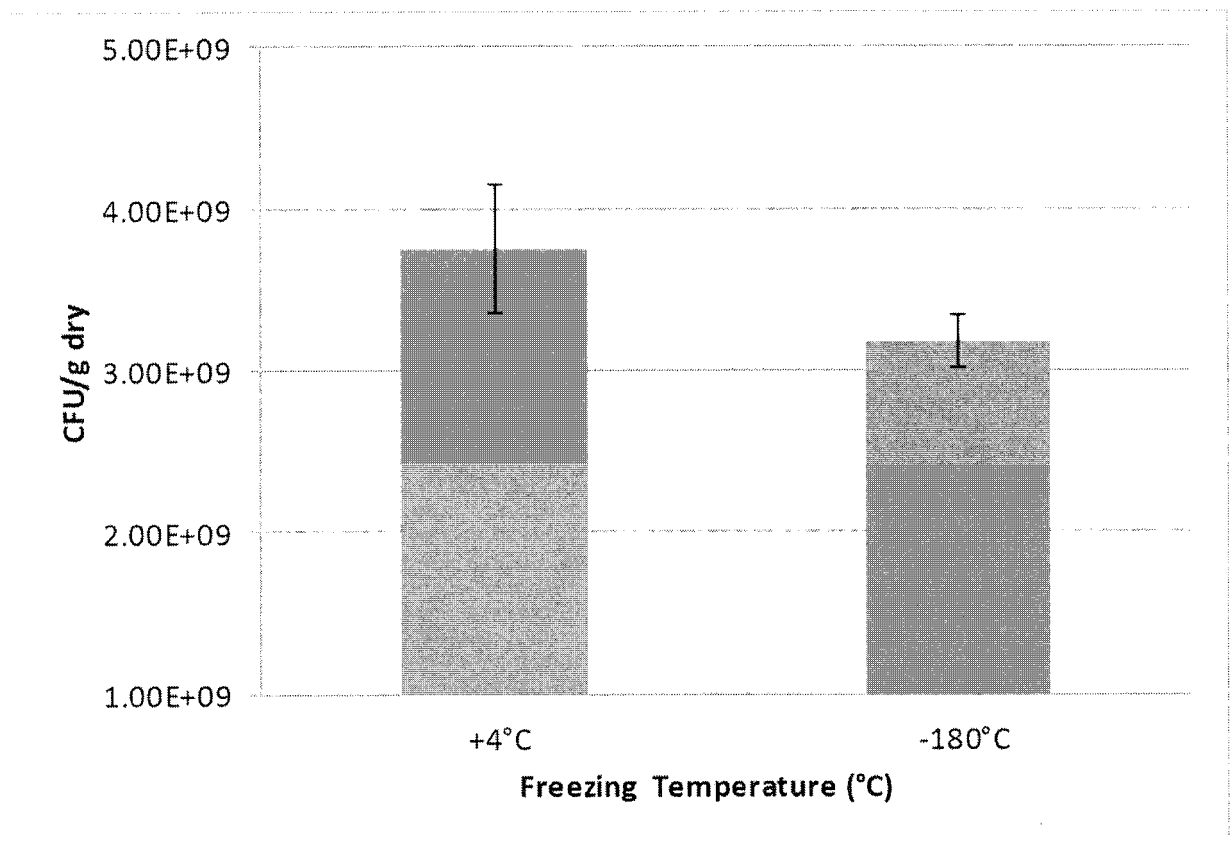


FIG. 11

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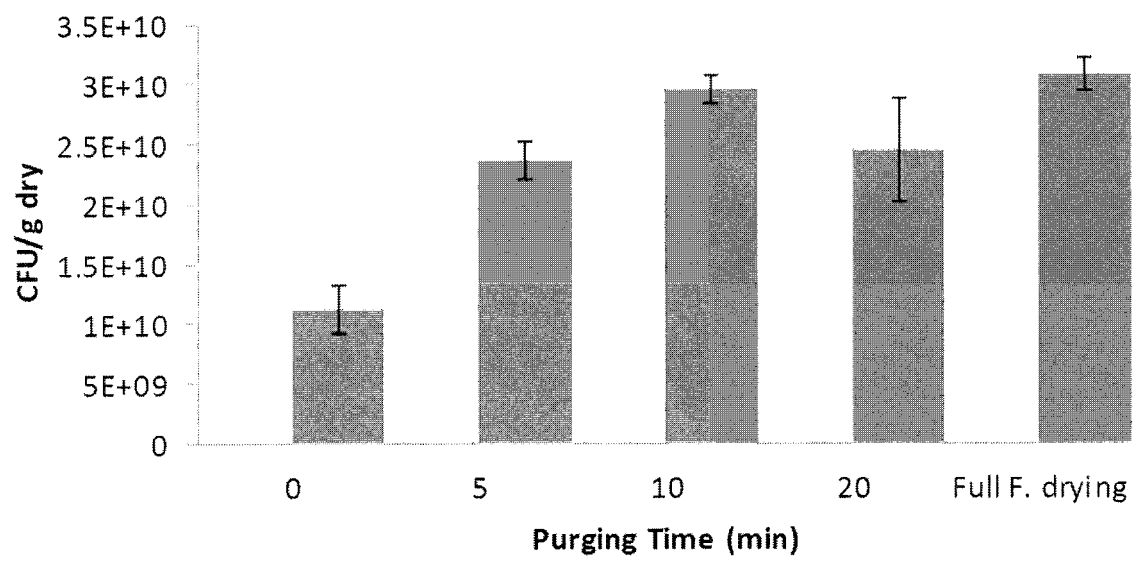


FIG. 12

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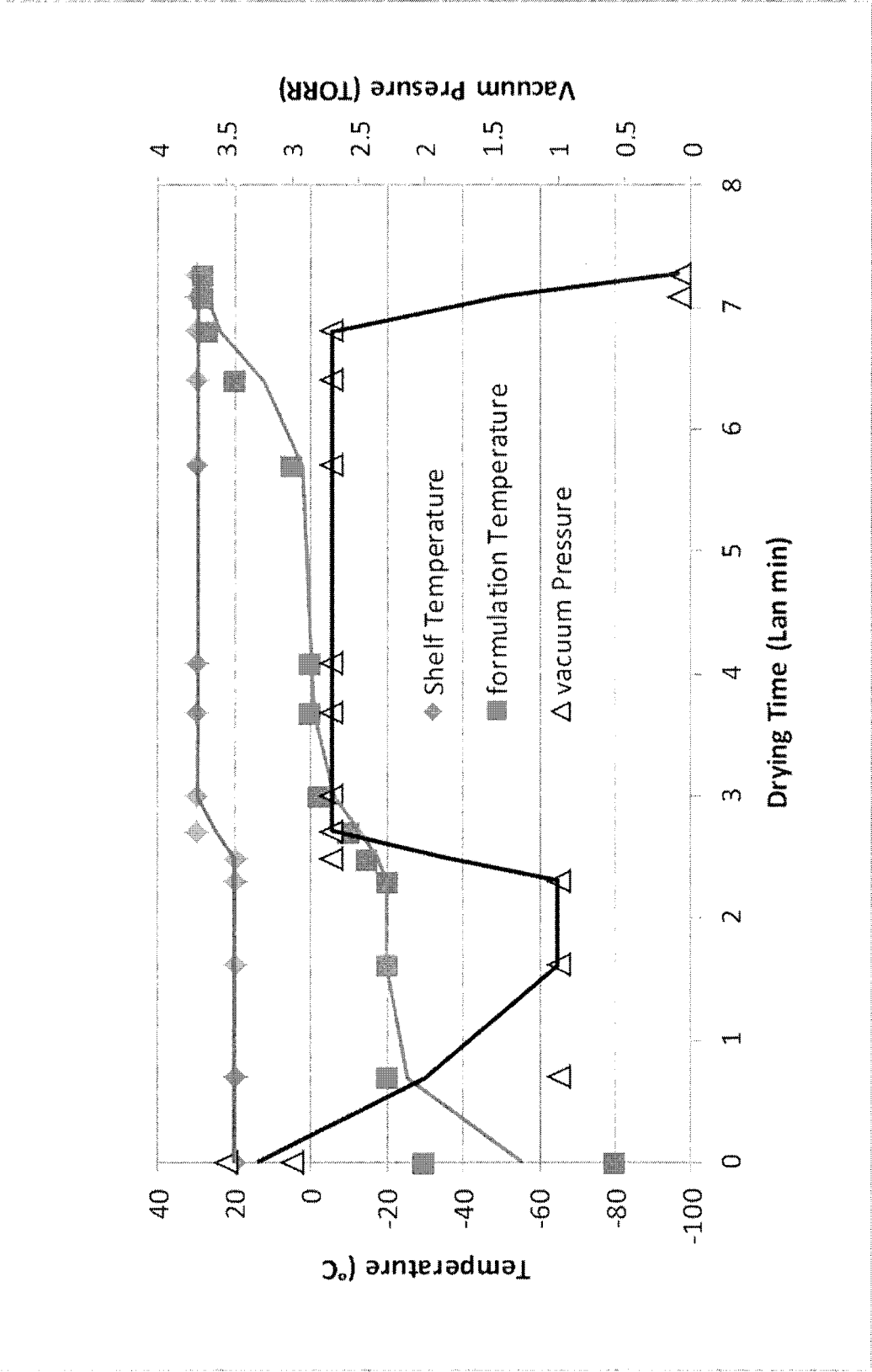


FIG. 13

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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

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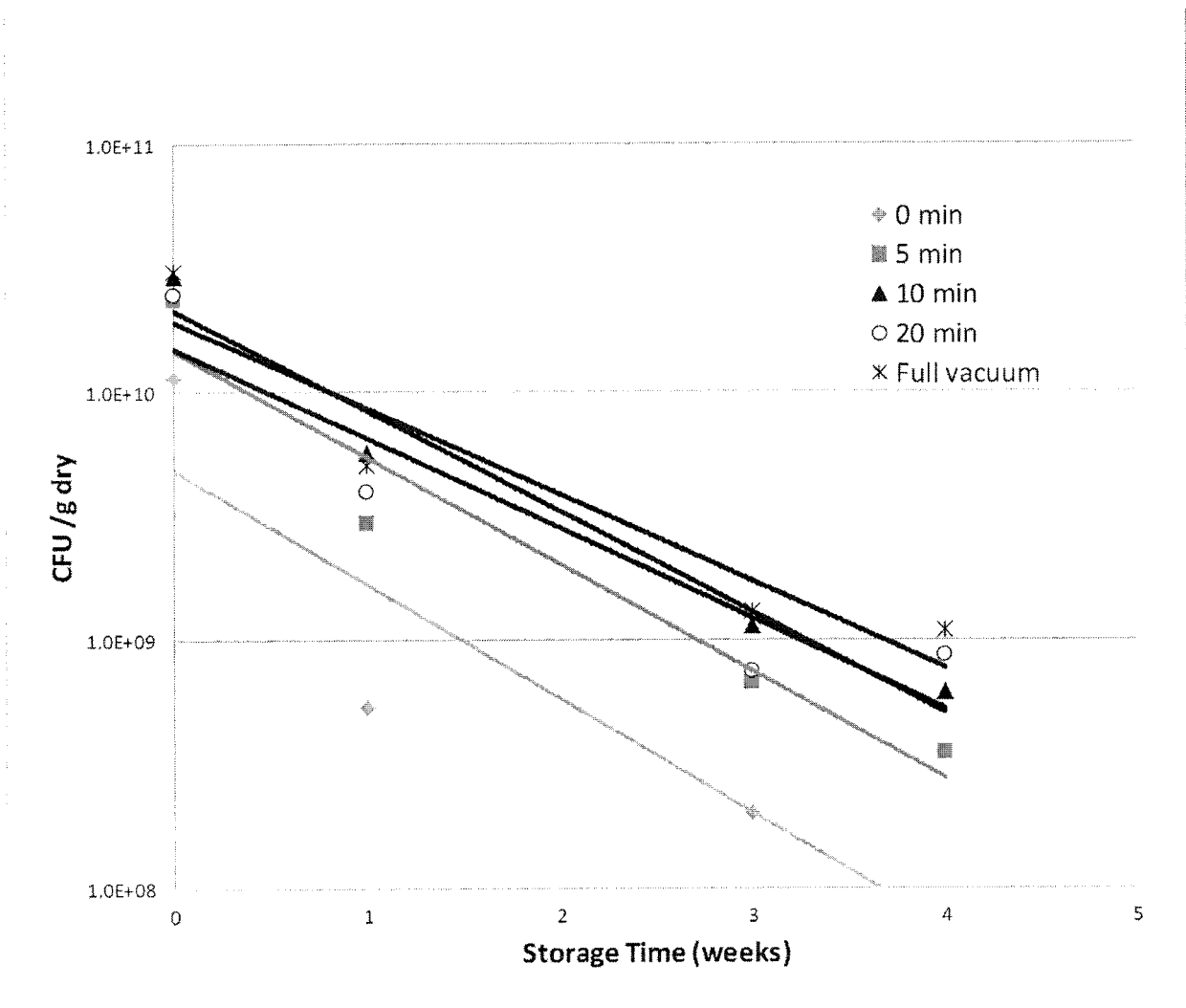


FIG. 15

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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.

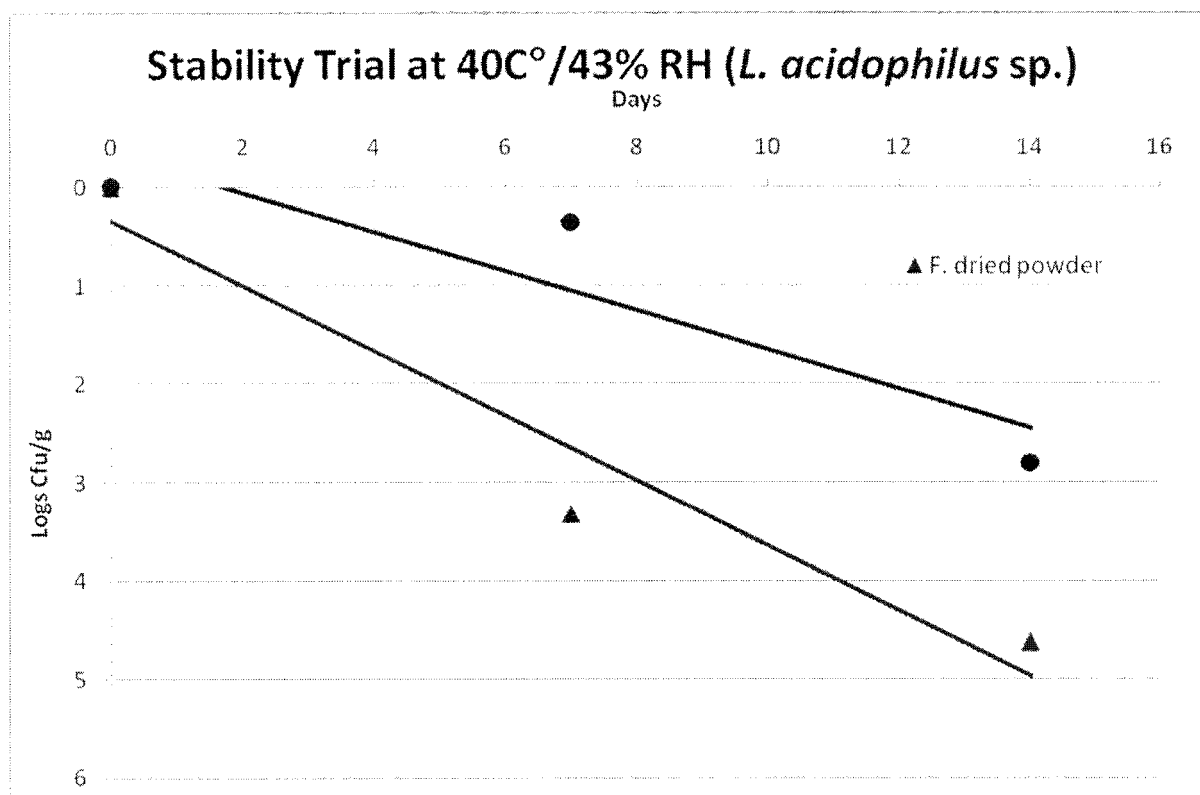


FIG. 16

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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.

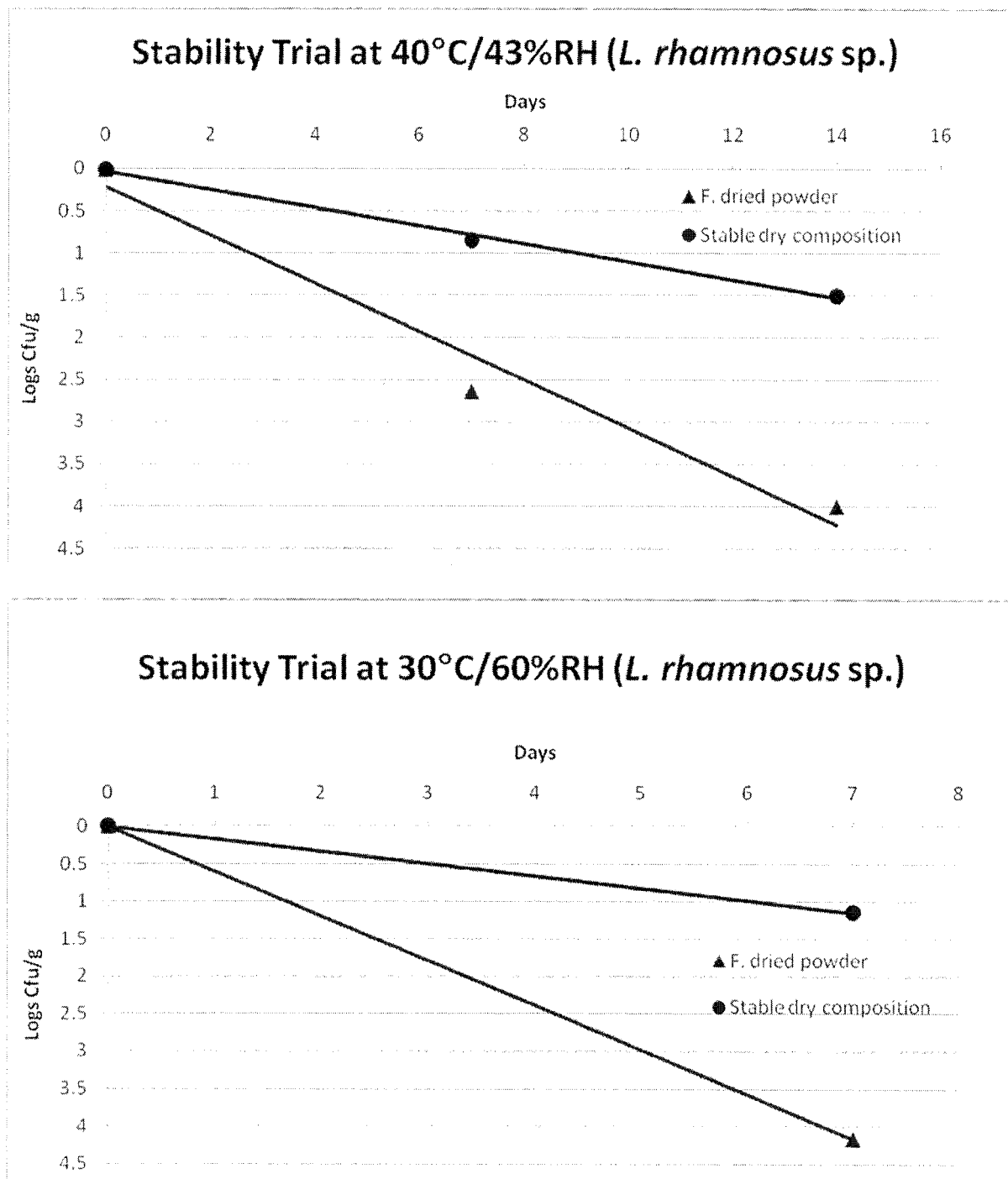


FIG. 17

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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.

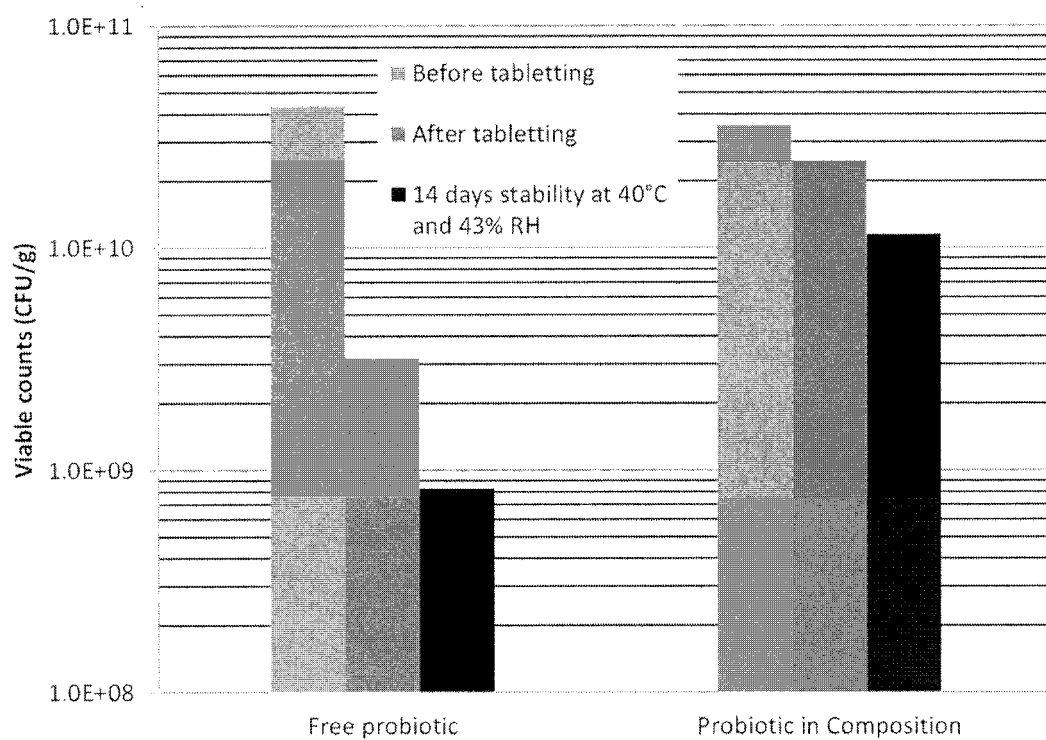


FIG. 18

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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.

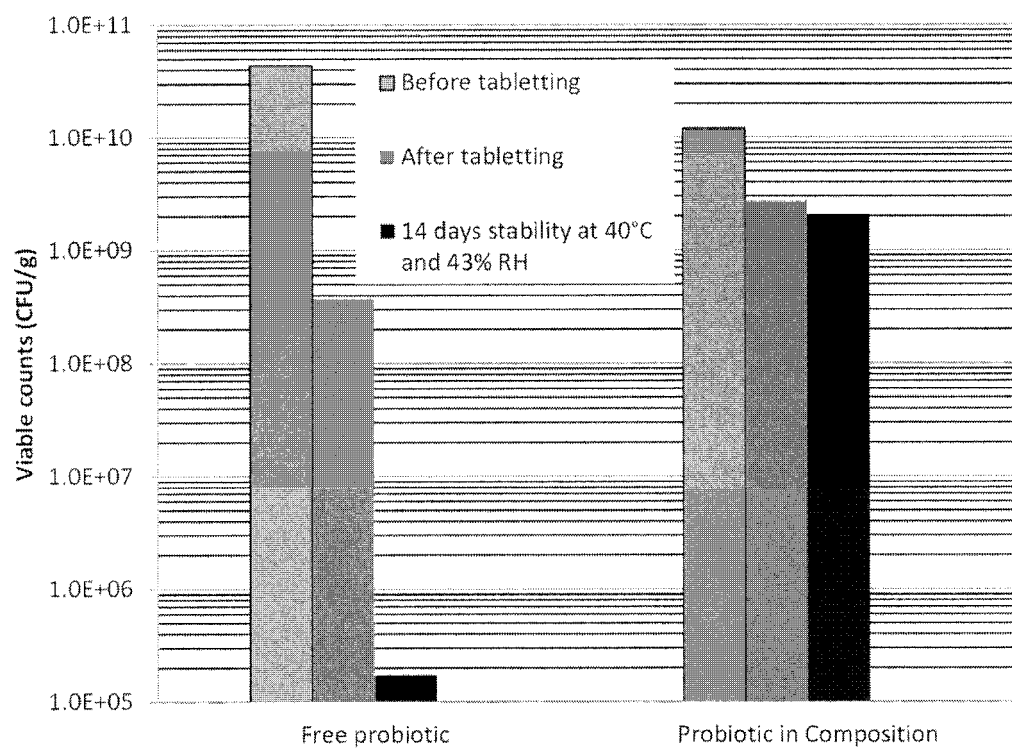


FIG. 19

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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.

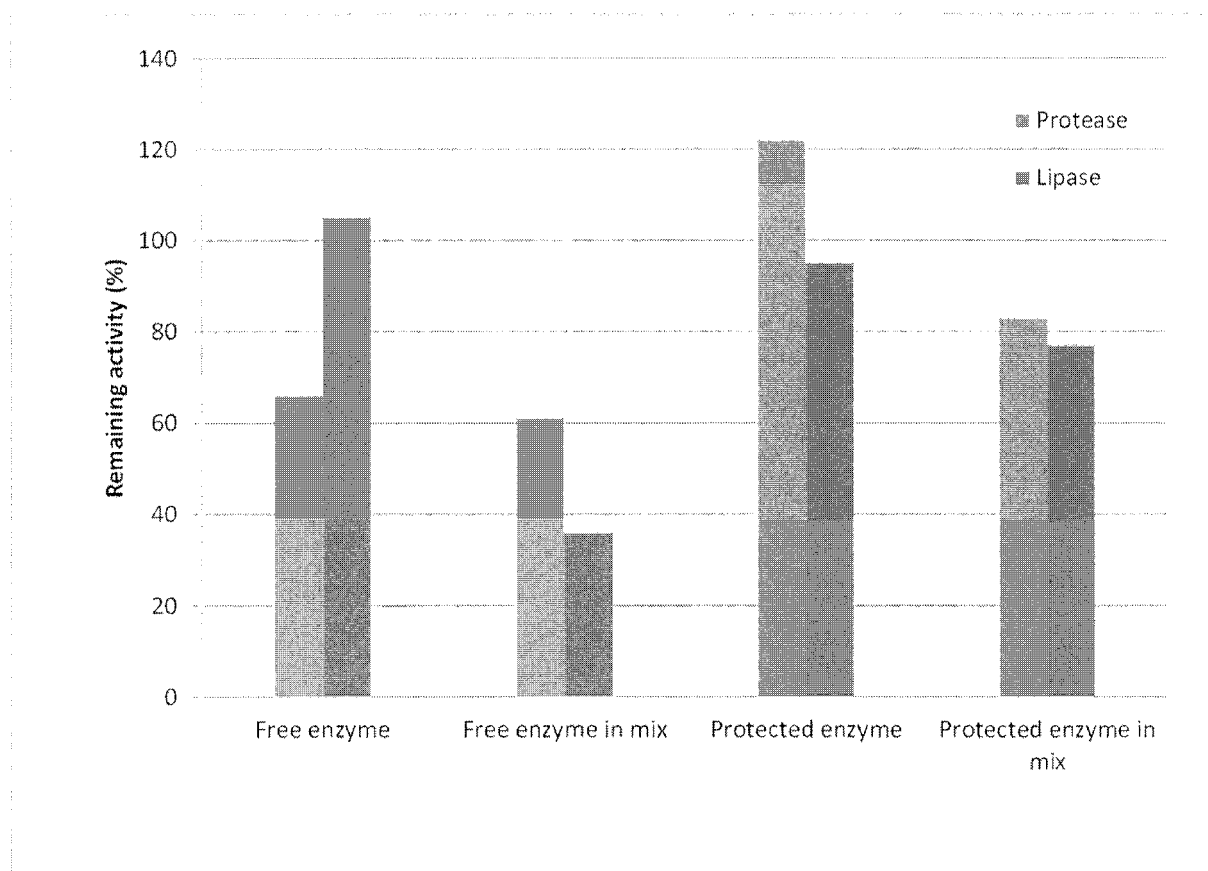


FIG. 20