

FIG. 1A

Legend: ■ N-acetylglucosamine ● mannose

—Asn—OVD protein moiety with the N-linked glycosylation site

nOVD from chicken egg (Hwang, et al. 2014)	Clara-SOL by <i>P. pastoris</i> (LC-MS/MS)

FIG. 1B

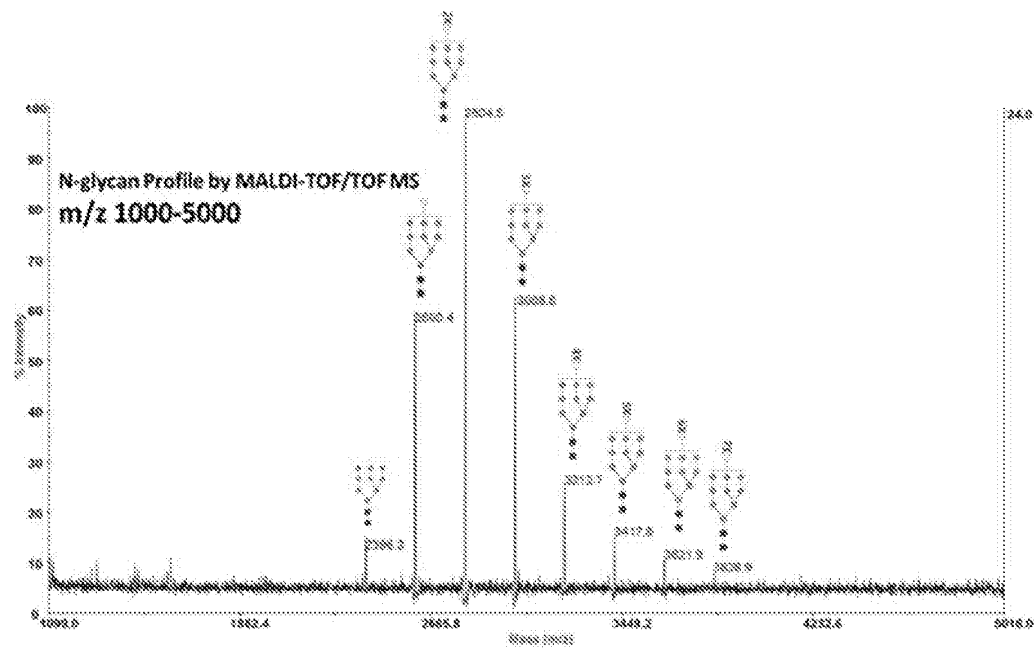


FIG. 1C

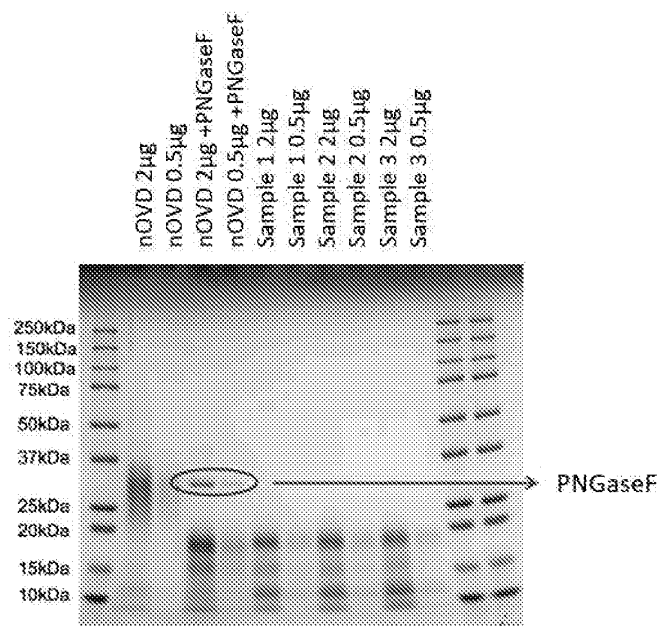


FIG. 1D

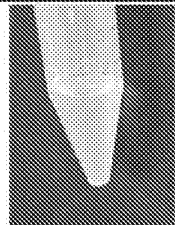
pH of rOVD solution (4.23% w/v protein basis)	Absorbance of DI water	Absorbance of rOVD solution (4.23% w/v protein basis)	Photo of rOVD solution in DI water (4.23% w/v protein basis)
4.11	0.037	0.047	

FIG. 2

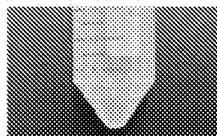
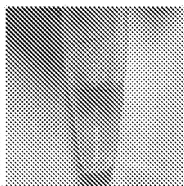
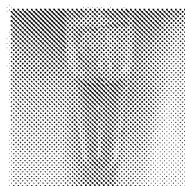
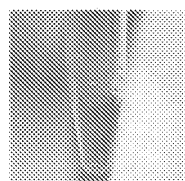
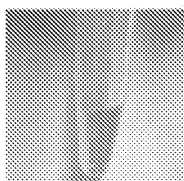
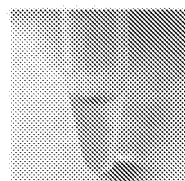
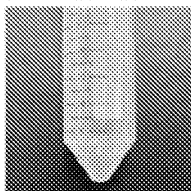
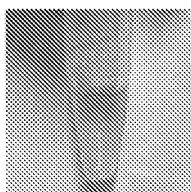
	Parameter	Pre processing	Post pasteurization	Post hot fill
rOVD solution (30% w/v protein based) in deionized water, at pH 4.06	Absorbance at 600nm	0.175	0.101	0.104
	Photos			
rOVD solution (30% w/v protein based) at pH 6.3	Absorbance at 600nm	0.116	0.089	0.094
	Photos			

FIG. 3

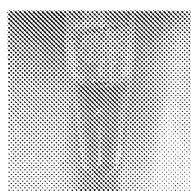
rOVD in deionized water



Room temperature



After pasteurization



After hot fill

FIG. 4

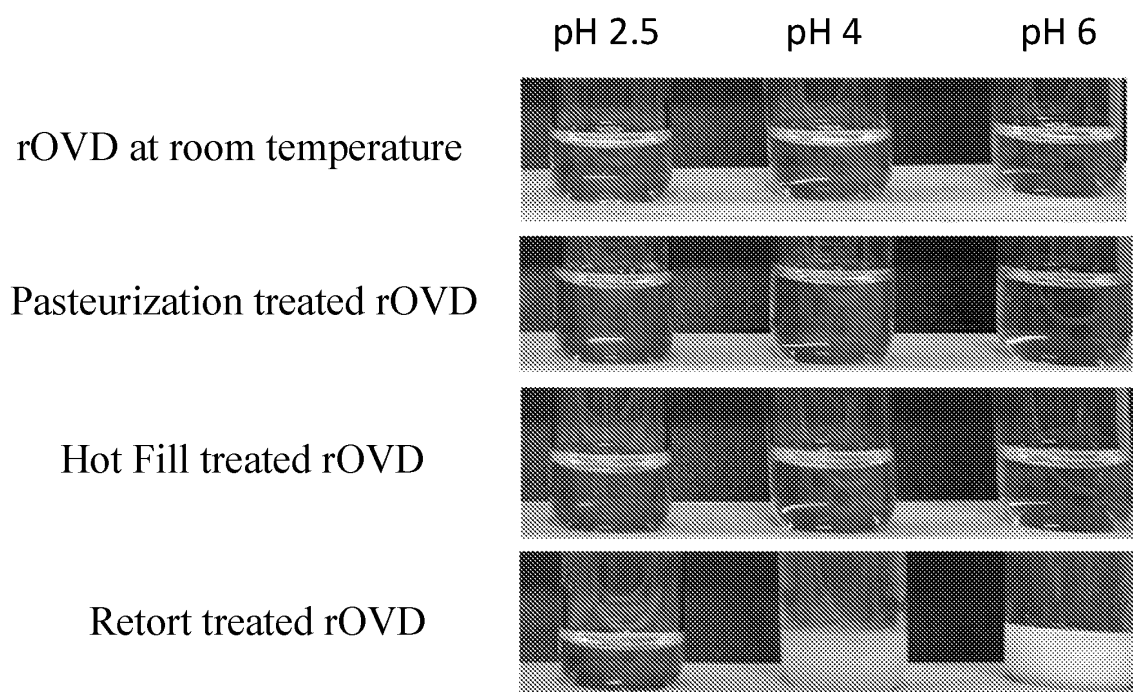
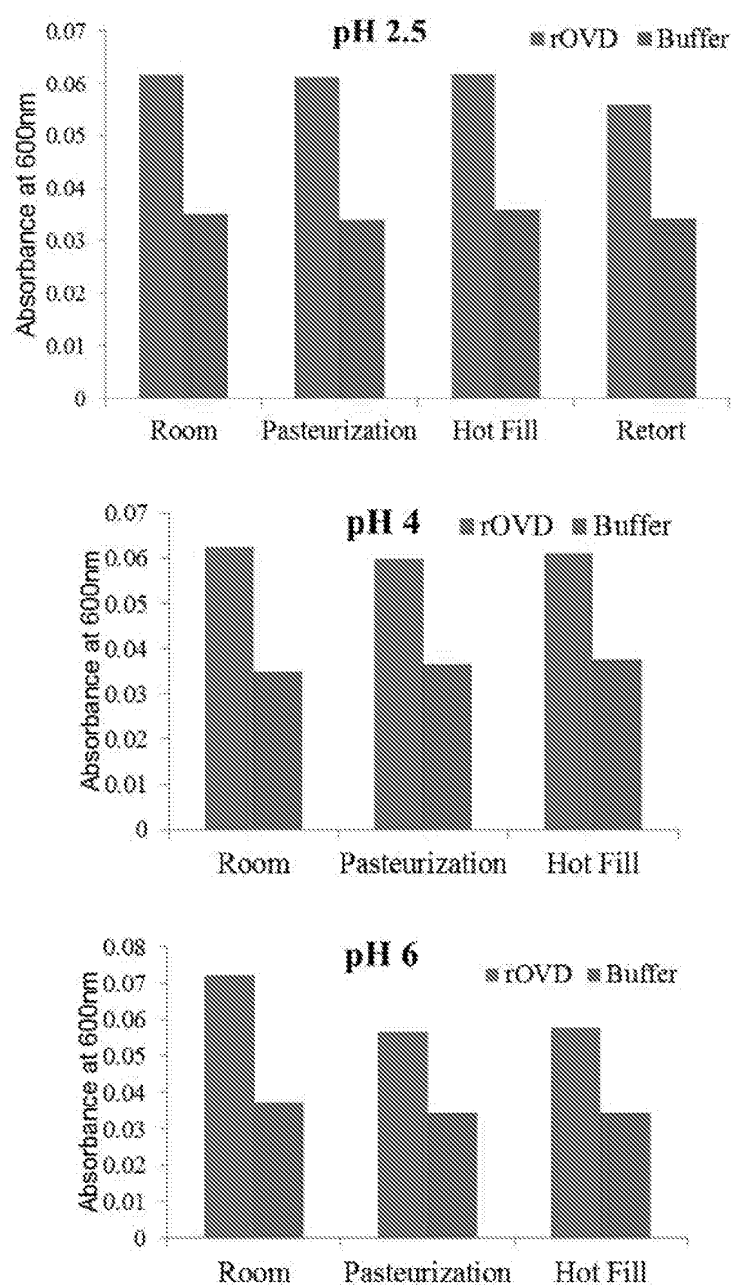
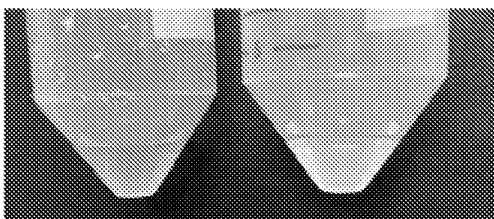


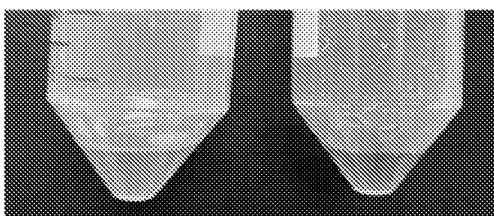
FIG. 5A

**FIG. 5B**

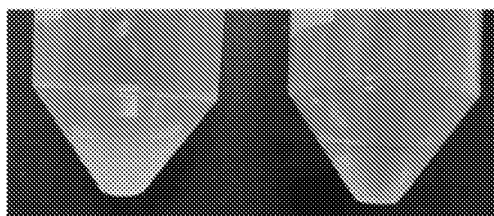
San Pellegrino®



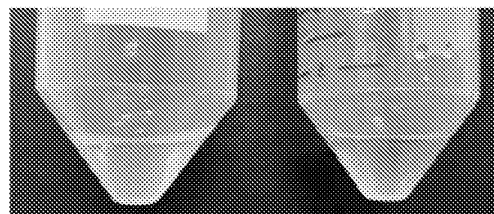
Diet Coke®



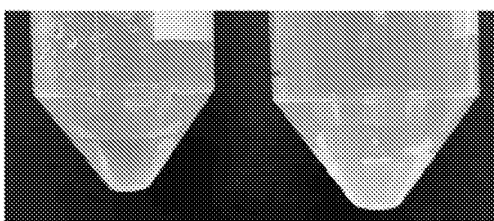
Gatorade™



Red Bull™

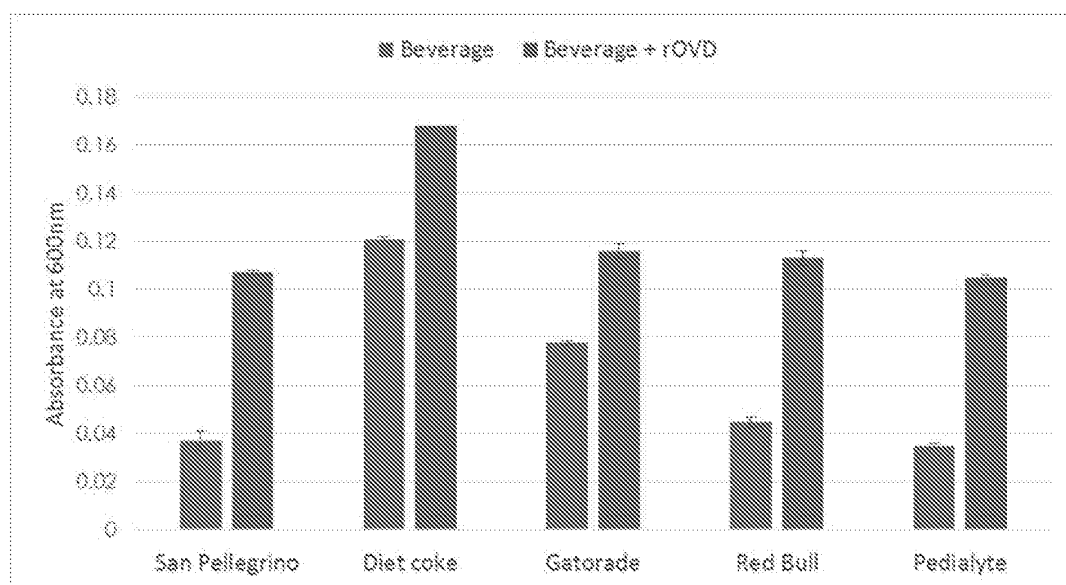


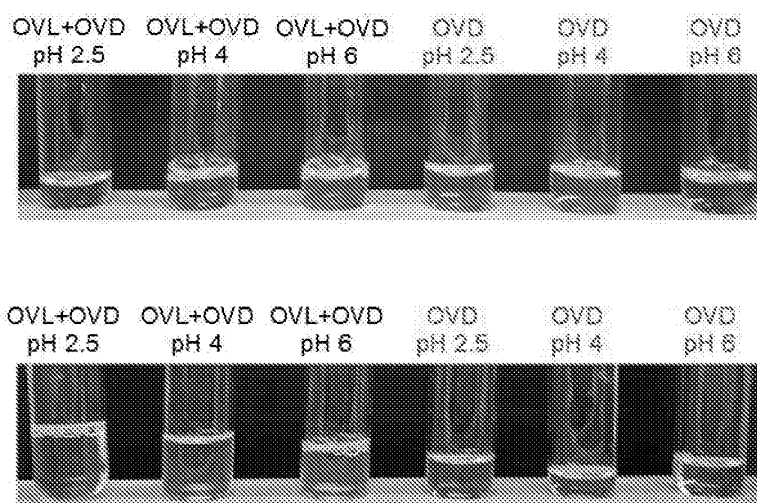
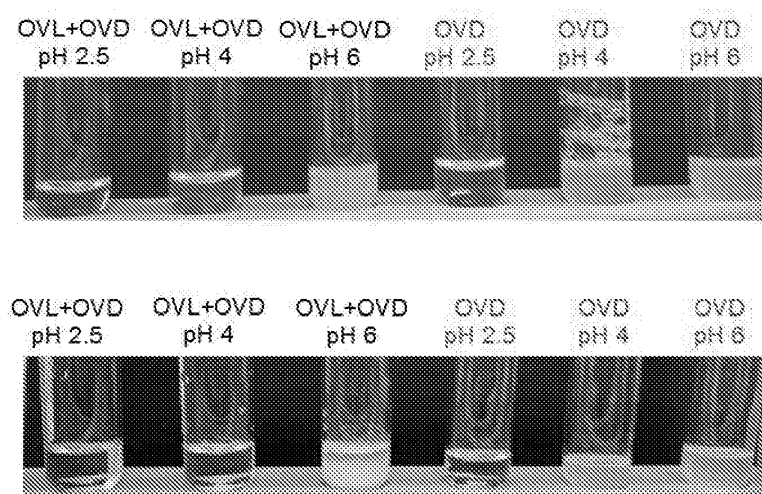
Pedialyte®

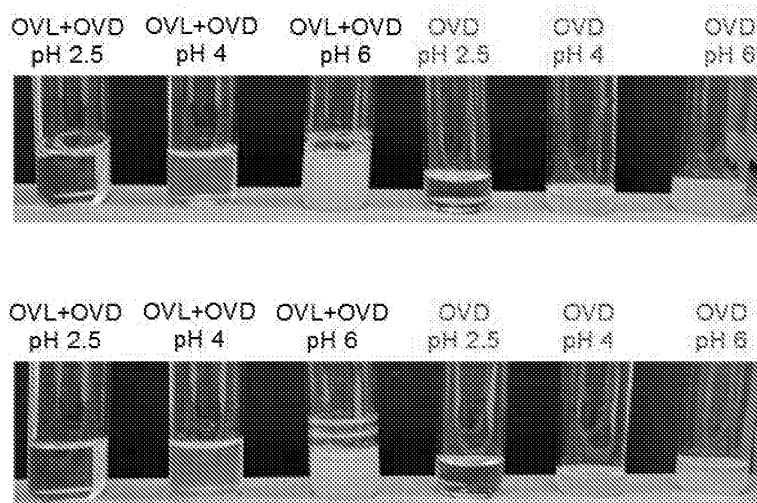
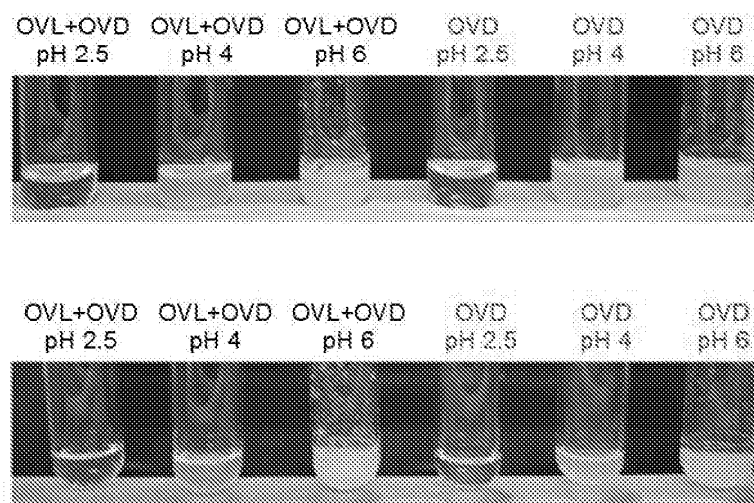
rOVD in
Beverage

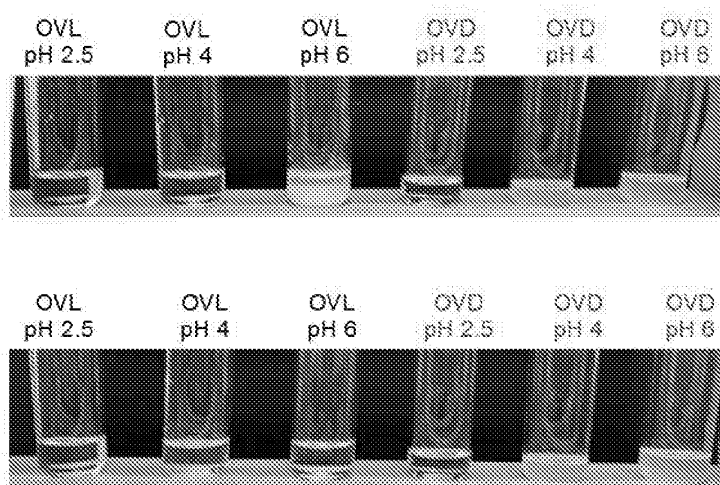
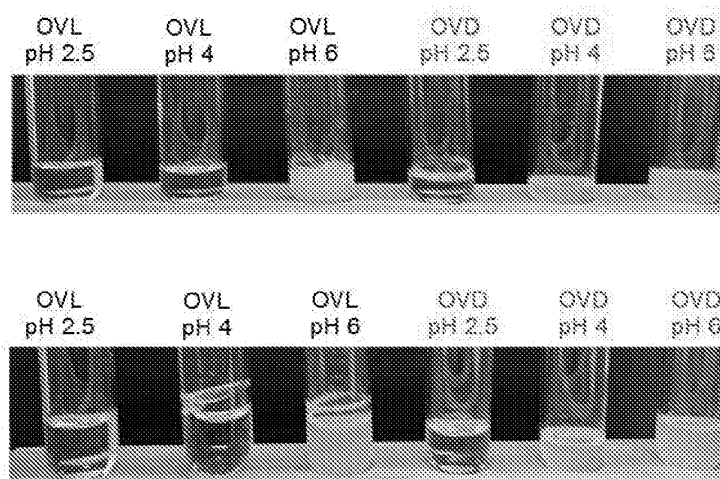
No rOVD

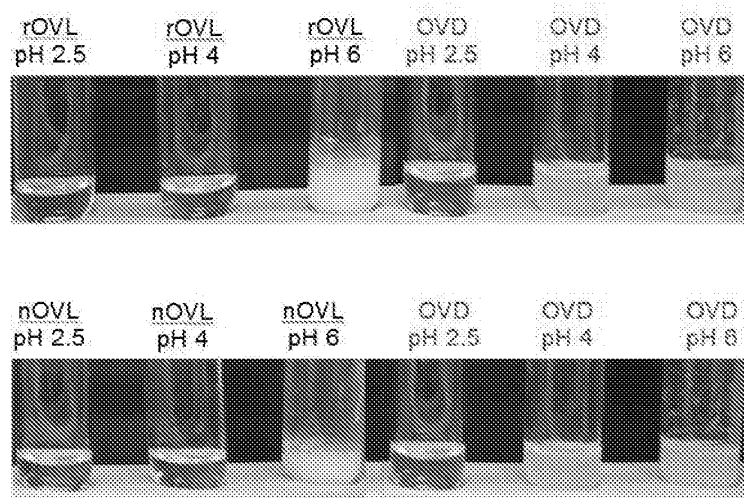
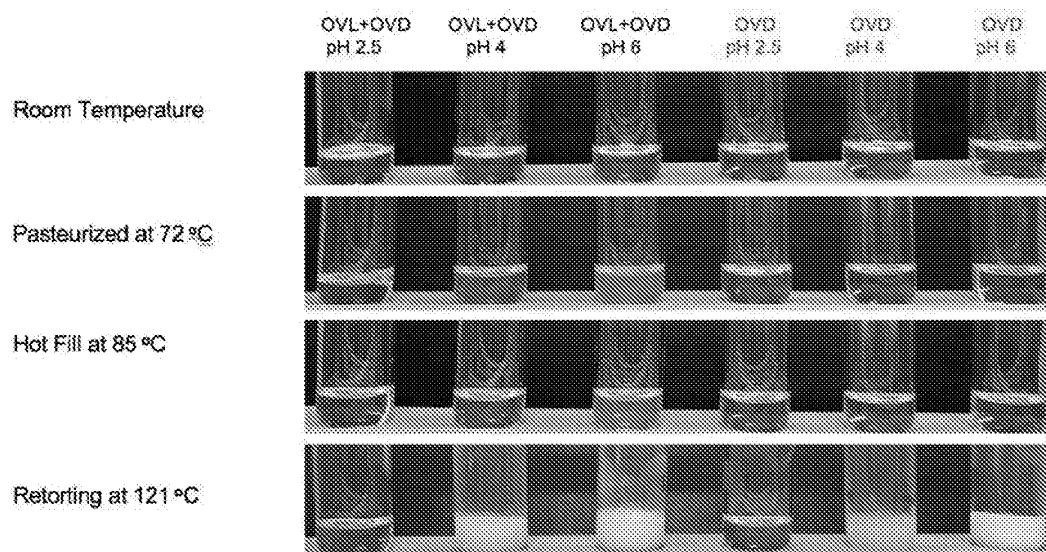
FIG. 6A

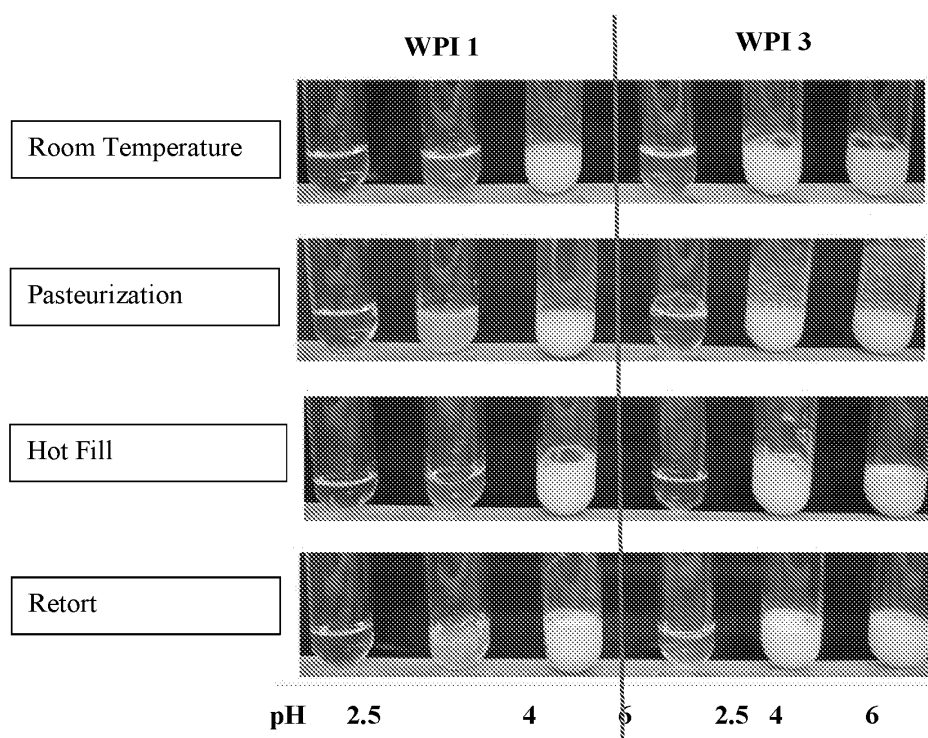
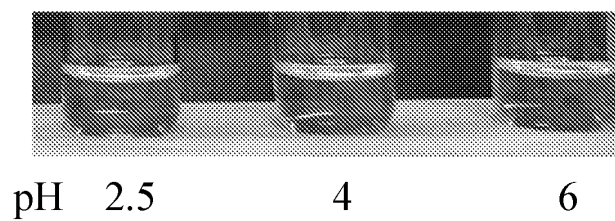
**FIG. 6B**

**FIG. 7****FIG. 8**

**FIG. 9****FIG. 10**

**FIG. 11****FIG. 12**

**FIG. 13****FIG. 14**

**FIG. 15A****rOVD solutions****FIG. 15B**

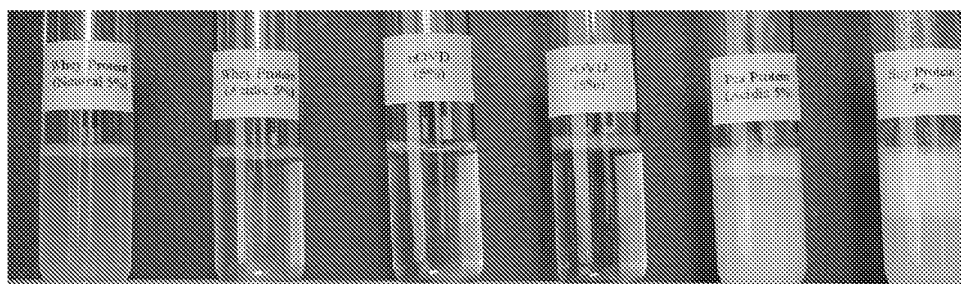


FIG. 16

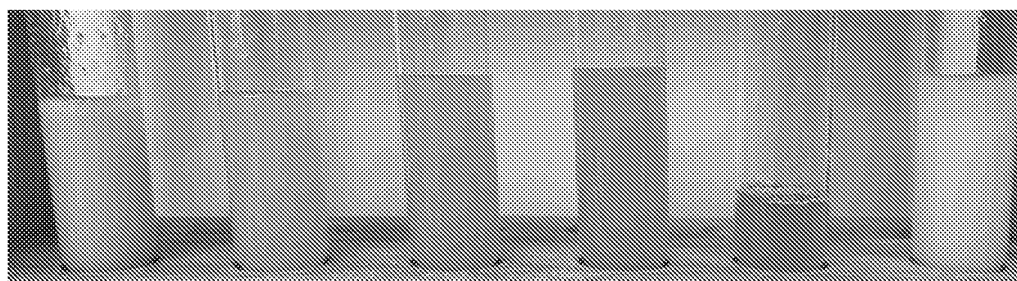


FIG. 17A

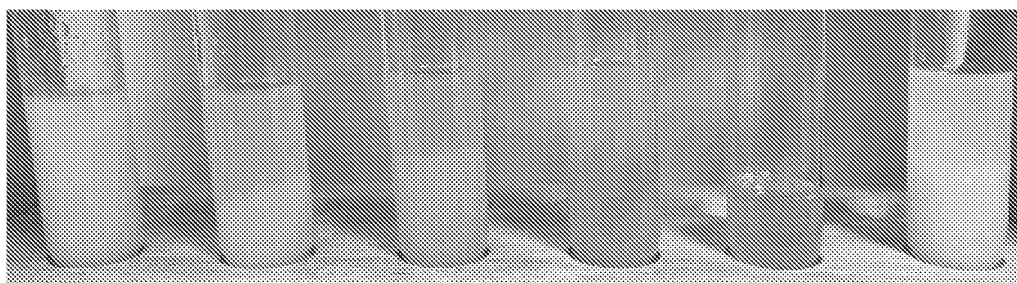


FIG. 17B

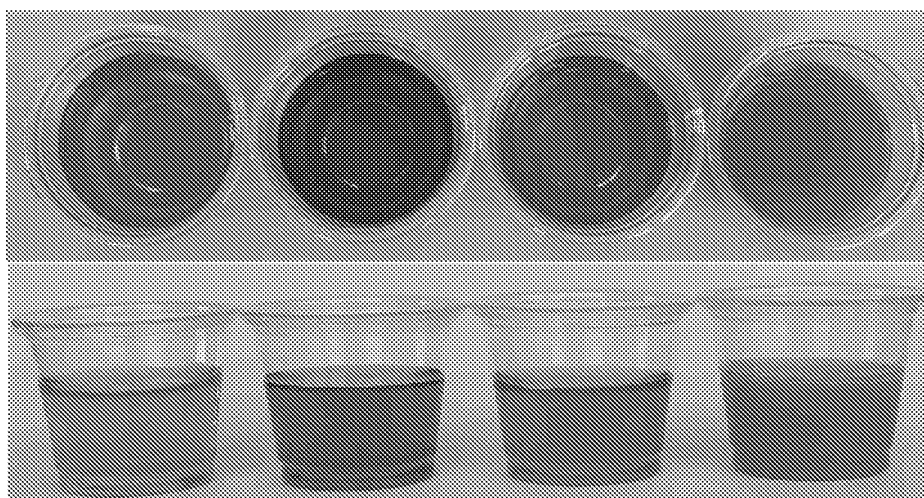
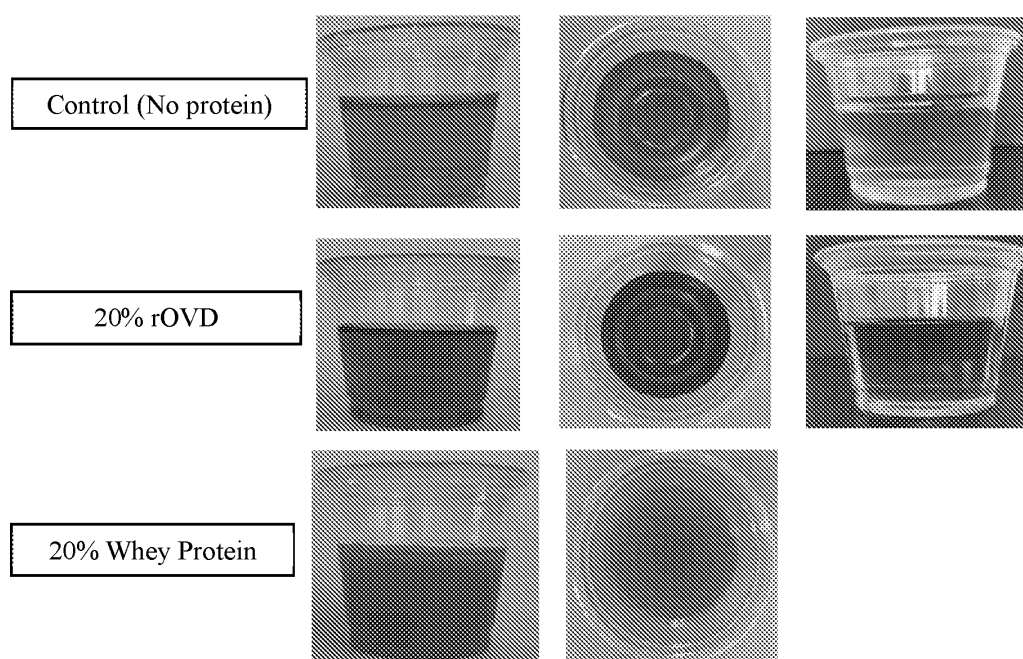
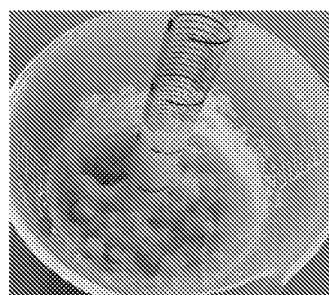
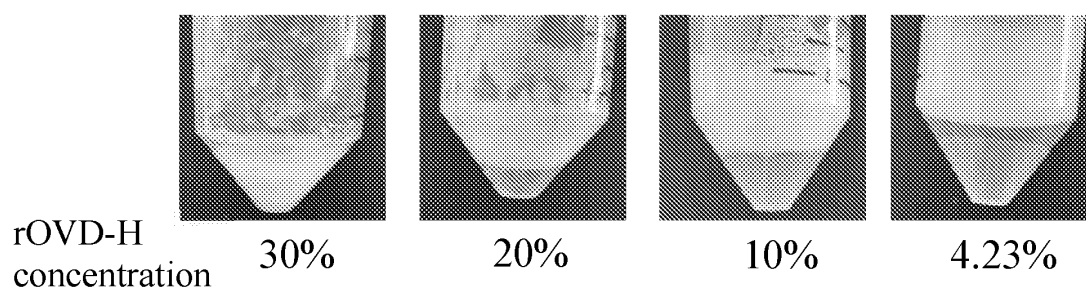
**FIG. 18A****FIG. 18B**

**FIG. 18C****FIG. 18D****FIG. 18E**

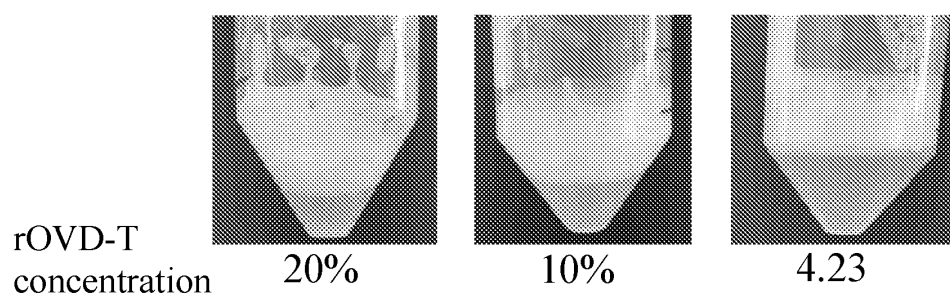
rOVD-H
concentration

30%

20%

10%

4.23%

FIG. 19A

rOVD-T
concentration

20%

10%

4.23

FIG. 19B

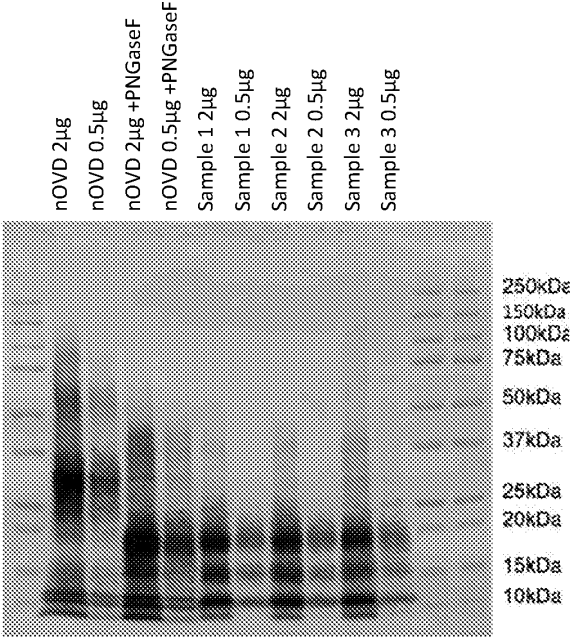


FIG. 20

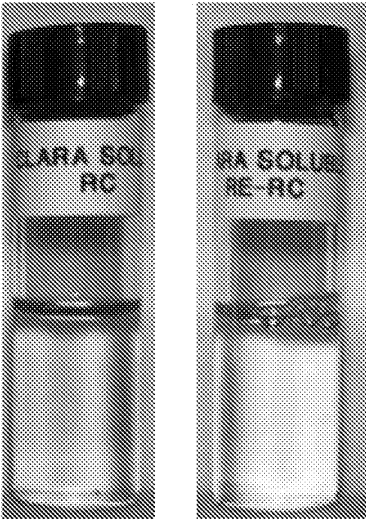


FIG. 21

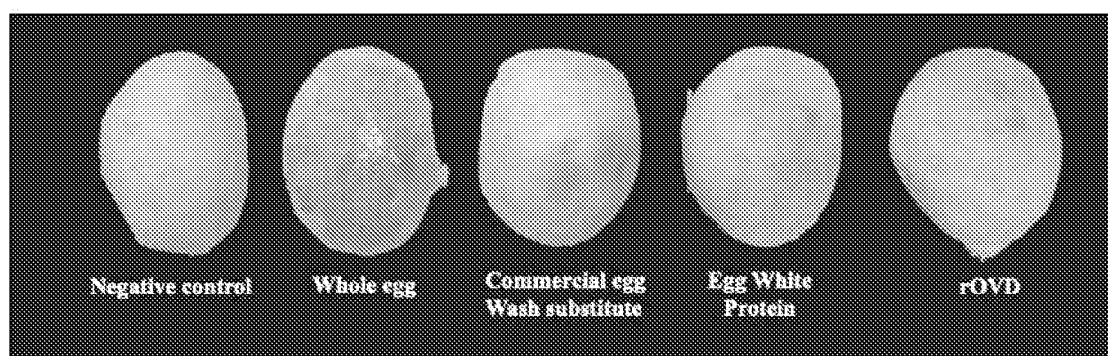


FIG. 22