CLAIMS

What is claimed is:

1. An immunogenic composition comprising a *Leptospira interrogans* serovar *hardjo* (type *hardjoprajitno*) but without including Leptospira borgpetersenii serovar hardjo type hardjo-bovis for use in a method for providing protection against, reduction in the incidence, and/or lessening the severity of infection by ~~provoking an immune response against~~ *Leptospira borgpetersenii* serovar *hardjo* (type *hardjo-bovis*) in a subject.

2. The immunogenic composition of claim 1, wherein the *Leptospira interrogans* serovar *hardjo* (type *hardjoprajitno*) is a killed bacterium.

3. The immunogenic composition according to claim 1 or 2, further comprising one or more modified live viruses (MLVs) selected from the group consisting of Infectious Bovine Rhinotracheitis (IBR) virus, Bovine Virus Diarrhea (BVD) Types 1 and 2, Parainfluenza 3 (PI3) virus, and Bovine Respiratory Syncytial Virus (BRSV).

~~4. The immunogenic composition according to any one of claims 1 to 3, wherein the immune response provides protection against, reduction in the incidence, and/or lessens the severity of infection by *Leptospira borgpetersenii* serovar *hardjo* (type *hardjo-bovis*) in a subject.~~

~~5.~~4. The immunogenic composition according to any one of claims 1 to ~~4~~3, wherein the subject is a bovine.

~~6.~~5. The immunogenic composition according to claim ~~5~~4, wherein the bovine is a cow or heifer.

~~7.~~ 6. The immunogenic composition according to any one of claims 1 to ~~6~~5, wherein the immunogenic composition is a vaccine.

~~8.~~7. The immunogenic composition of any one of claims 1 to ~~7~~6, wherein the immune response provides reduction or protection against urine shedding or renal infection in a subject.

~~98~~. Use of a *Leptospira interrogans* serovar *hardjo* (type *hardjoprajitno*) in the manufacture of an immunogenic composition for providing protection against, reduction in the incidence, and/or lessening the severity of infection by ~~provoking an immune response against~~ *Leptospira borgpetersenii* serovar *hardjo* (type *hardjo-bovis*) in a subject, wherein said immunogenic composition does not include Leptospira borgpetersenii serovar hardjo type hardjo-bovis.

~~109~~. The use of claim ~~98~~, wherein the *Leptospira interrogans* serovar *hardjo* (type *hardjoprajitno*) is a killed bacterium.

~~1110~~. The use according to claim ~~9-8~~ or ~~109~~, further comprising one or more modified live viruses (MLVs) selected from the group consisting of Infectious Bovine Rhinotracheitis (IBR) virus, Bovine Virus Diarrhea (BVD) Types 1 and 2, Parainfluenza 3 (PI3) virus, and Bovine Respiratory Syncytial Virus (BRSV).

~~12. The use according to any one of claims 9 to 11, wherein the immune response provides protection against, reduction in the incidence, and/or lessens the severity of infection by *Leptospira borgpetersenii* serovar *hardjo* (type *hardjo-bovis*) in a subject.~~

~~1311~~. The use according to any one of claims ~~9-8~~ to ~~1210~~, wherein the subject is a bovine.

~~1412~~. The use according to claim ~~1311~~, wherein the bovine is a cow or heifer.

~~15. The use according to any one of claims 9 to 14, wherein the immunogenic composition is a vaccine.~~

~~1613~~. The use according to any one of claims ~~9-8~~ to ~~1512~~, wherein the immune response provides reduction or protection against urine shedding or renal infection in a subject.