Isolation of LP lymphocytes

a. Isolation of intestinal epithelial cells

- 1. Wash the intestine with Ca+ Mg+ free PBS
- 2. Open longitudinally, cut in to small pieces
- 3. Incubate with Ca+ Mg+ free RPMI-1640 with 5mM EDTA with 100 IU/ml of penicillin streptomycin, 1% fungizone, 50 IU gentamicin for 20 minutes (epithelial cells)
- 4. Incubate 25 mM EDTA with Ca+ Mg+ free RPMI-1640 with 5mM EDTA with 100 IU/ml of penicillin streptomycin, 1% fungizone, 50 IU gentamicin for 20 minutes (epithelial cells + intraepithelial lymphocytes)
- 5. Wash 5 times.

b. Isolation of LP lymphocytes

- 6. Take the remaining portion of Intestine
- 7. Incubate RPMI-1640 with 10% FCS with 125 IU/ml Collagenase VIII, 2 hr at 37°C.
- 8. Filter through the filter (like sieve)
- 9. Filter through glass wool column to remove the clumps
- 10. Magnetic beads isolation –