This study was carried out in the Histology and Embriology laboratory at the Medicine Veterinary and Zootecny of the Altiplano National University, with alpacas coming from the EPS Rural Alliance (4140 m.a.s.l.), Quimsachata Research Center (4050 m.a.s.l.) and the Raya Research Center (4130 m.a.s.l.) whose objective was the study the process of the uterine involution after parturition from day 0 to 30. For such purpose 34 multiparous alpacas from 4 to 6 year old were selectec. The results were: Macroscopically the uterus weight lost 71,07% (385,25g), 25,54% (138,55g) and 3,42% (18,6g) at first, second and third period of uterine involution. The weight reducction in the right uterine horn was 55,26% (37,55g), 38,63% (26,25g) and 6,11% (4,15g) at first, second and third period respectively. The lost sequence of weight in the left horn was 75,50% (159,5g), 19,58% (41,25g) and 4,92% (10,4g) at first, second and third period respectively. The uterus body declined in weight at 76,6% (87,25g), 17,08% (19,45g) and 6,32% (7,2g) at first, second and third period successively. The gradual reducction in weight of the cervix was 68,38% (47,15g), 26,10% (18,00g) and 5,51% (3,8g) at first, second and third period respectively. Histologically: During the first days the uterine surface was irregular and show off endometrial projections the fungiforme aspect, and was coveret with pavement cells, the stroma show linfocites, macrophages and fibroblasts cells and the diameter of the glands was reduced. After day six the uterus change and the epithelium show mainly cubic cells. The day 6 to 12 the epithelium going out irregular with same areas with paviment and cubic cells, which coincide with the significant change in the uterus weight (P£0.01). Fron day 13 to 18 are evident small covered areas by plane epithelium and the surface is something irregular, the glands are well developed showing a wide lumen which coincide with the significant change in both weight and volume of uterus (P£0.01). At day 19 the uterine surface change to regular and cylindrical epithelium, which are related again with the significant change in both weight and volume of uterus (P£0.01). The uterus is restored to original condition approximately at day 30 postpartum.