



كلية : التربية للعلوم الصرفة

القسم او الفرع : علوم الحياة

المرحلة: الاولى

أستاذ المادة : د.أسراء عبد الكريم معروف العاني

اسم المادة باللغة العربية : كيمياء تحليلية

اسم المادة باللغة الإنكليزية : Analytical Chemistry

اسم المحاضرة السابعة باللغة العربية : شوائب الترسيب

اسم المحاضرة السابعة باللغة الإنكليزية : PREPESITATION impurities

- ***Direction of Coprecipitation Errors***
- Coprecipitated impurities may cause the results of an analysis to either too high or too low. If the contaminant is not a compound of the ion being determined, positive errors will always result. Thus, a positive error will be observed when colloidal silver chloride adsorbs silver nitrate during a chloride analysis. On the other hand, where the contaminant contains the ion being determined, either positive or negative errors may be observed. In the determination of barium ions by precipitation as barium sulfate, for example, occlusion of barium salts occurs. If the occluded contaminant is barium nitrate, a positive error will be observed, since this

compound has a greater formula weight than the barium sulfate that would have formed had no coprecipitation occurred. If barium chloride were the contaminant, however, a negative error would arise because its formula weight is less than that of the sulfate salt.