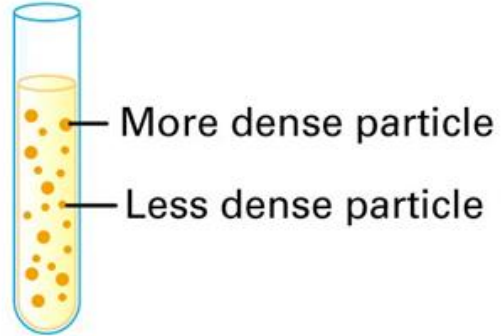


# روشهای آزمایشگاهی در بیوشیمی

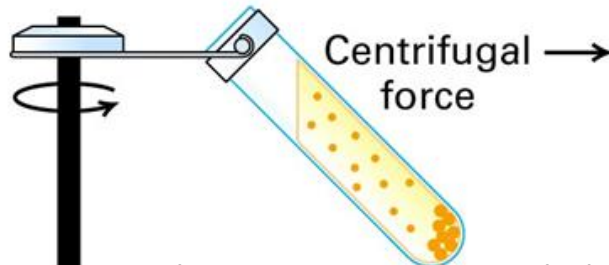
دکتر هادی انصاری هادی پور

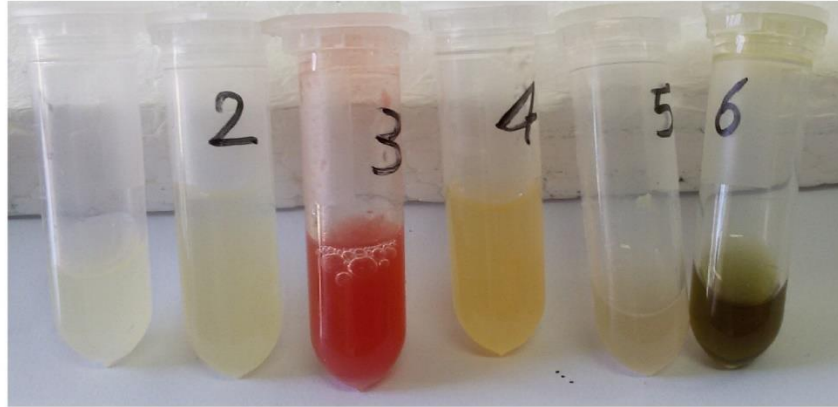
اراک، دانشکده پزشکی، گروه بیوشیمی و ژنتیک

# Centrifugation

**1** Sample is poured into tube**2**

Centrifuge  
Particles settle  
according to  
mass





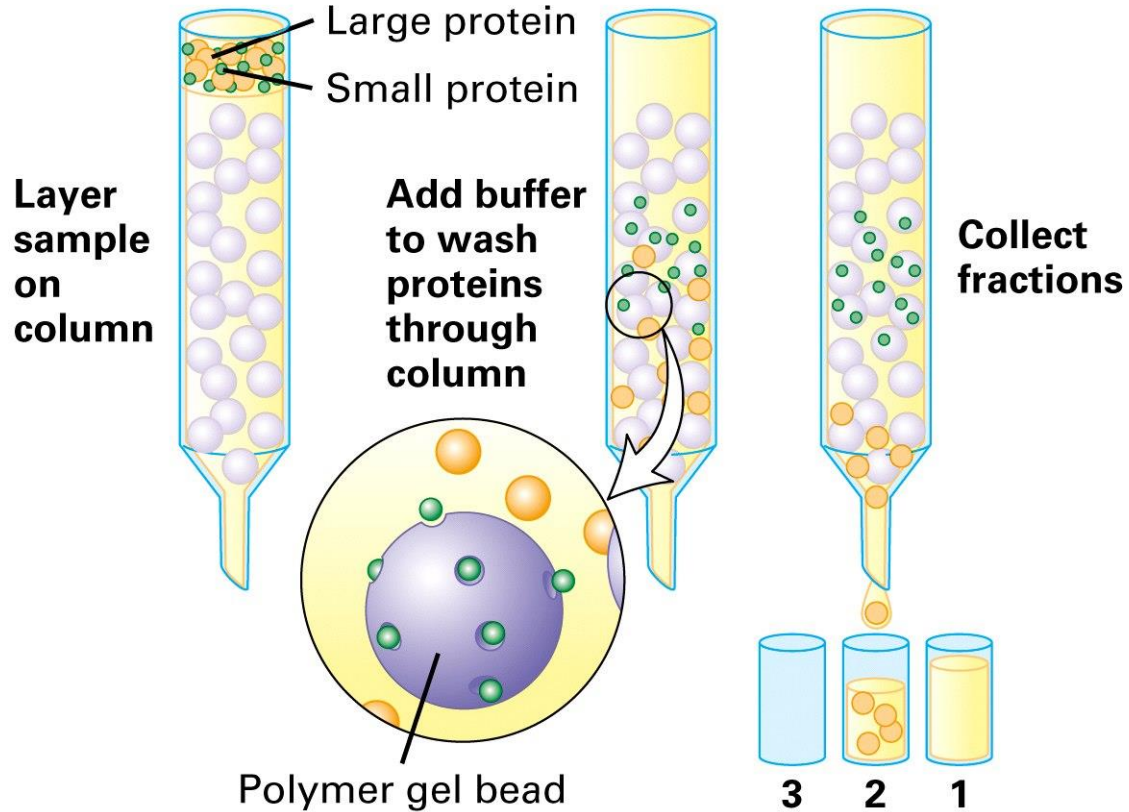
طرح تحقیقاتی استرس اکسیداتیو و آنتی اکسیدانهای گیاهی

# Chromatography

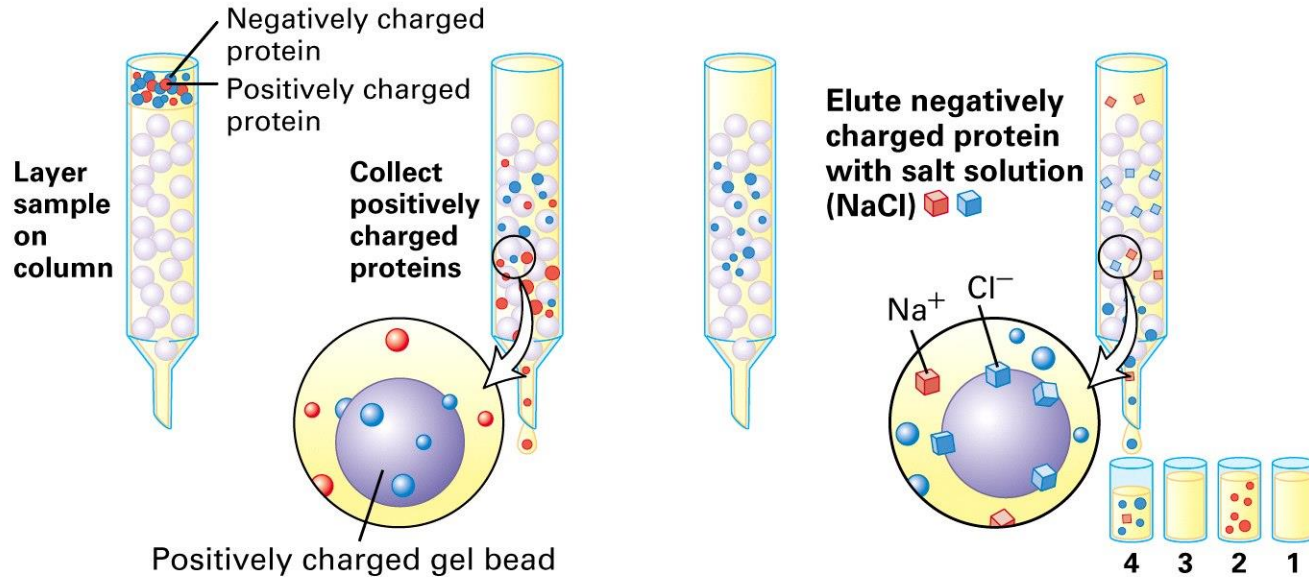




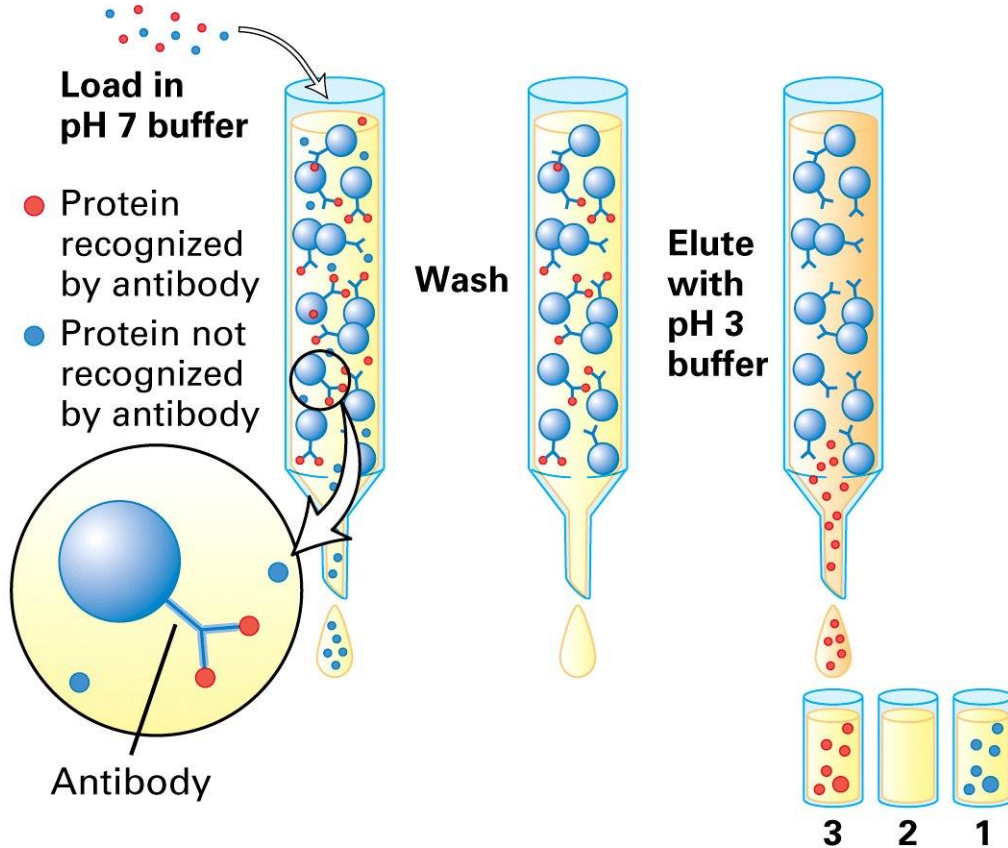
## (a) Gel filtration chromatography



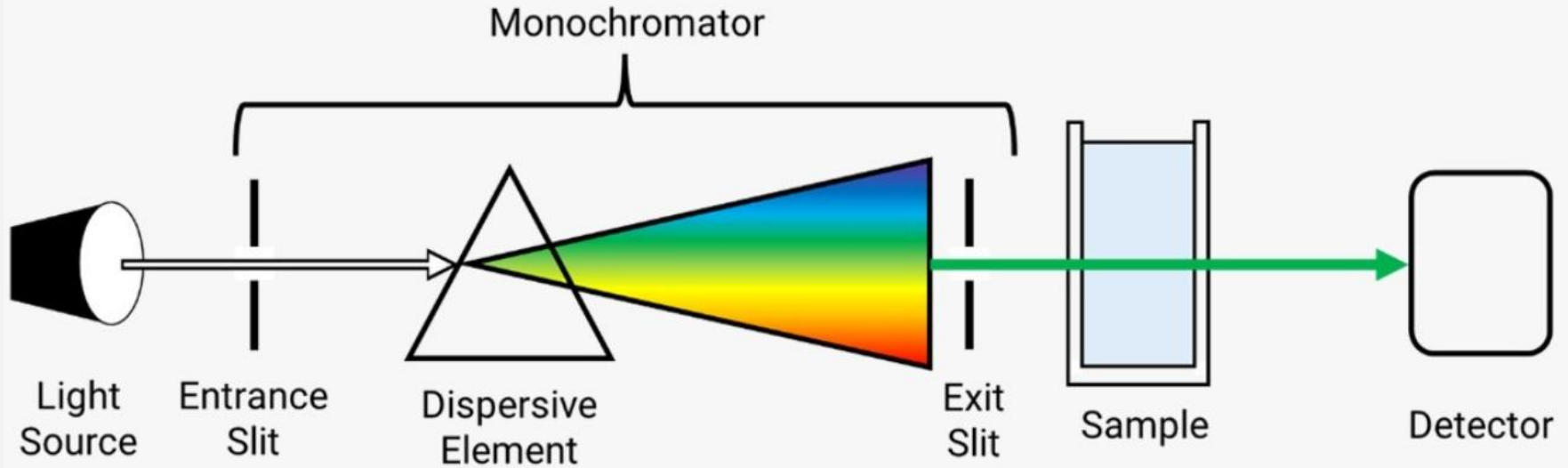
## (b) Ion-exchange chromatography



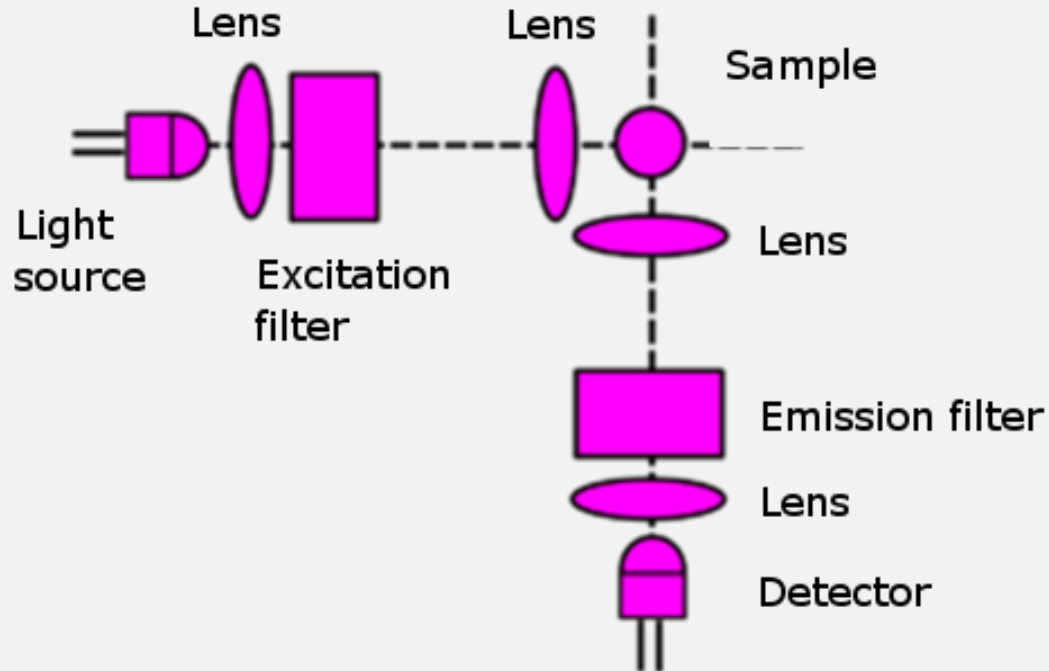
### (c) Antibody-affinity chromatography

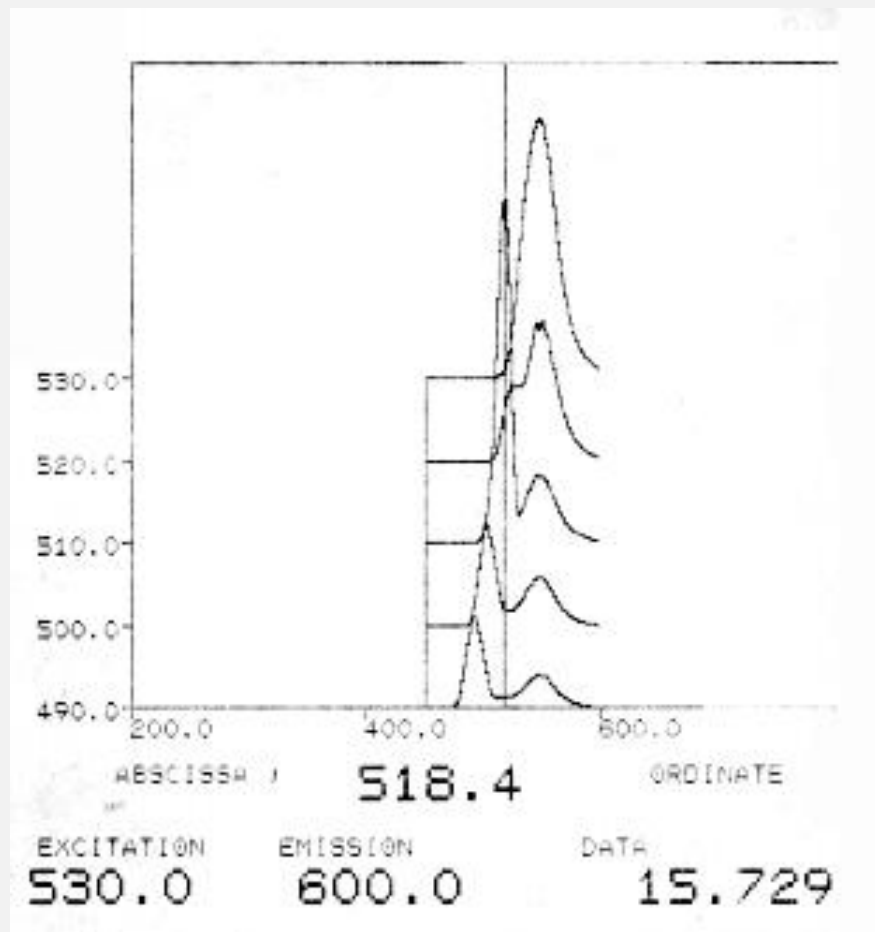


# Spectrophotometry

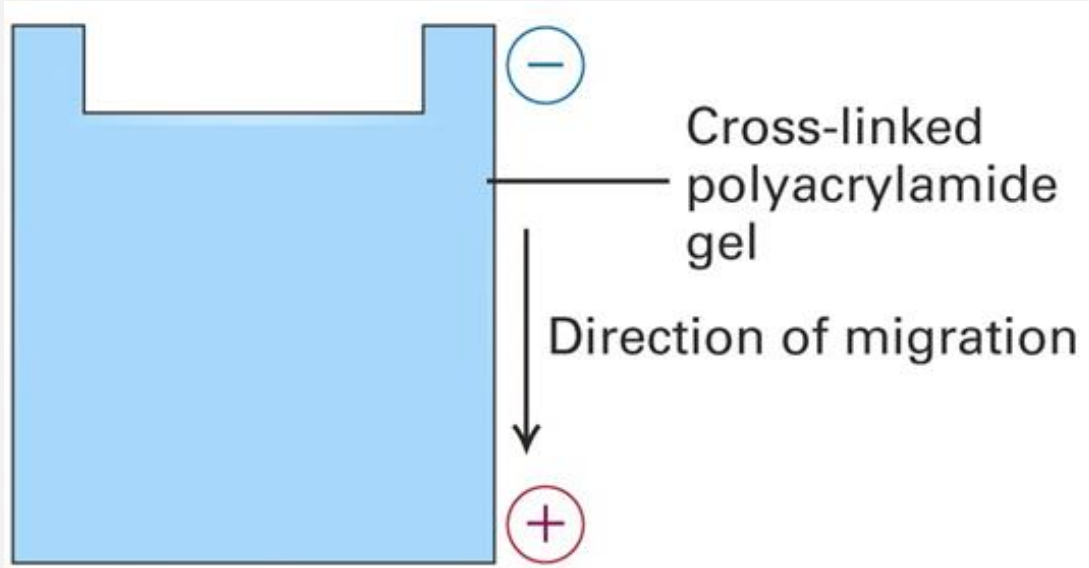


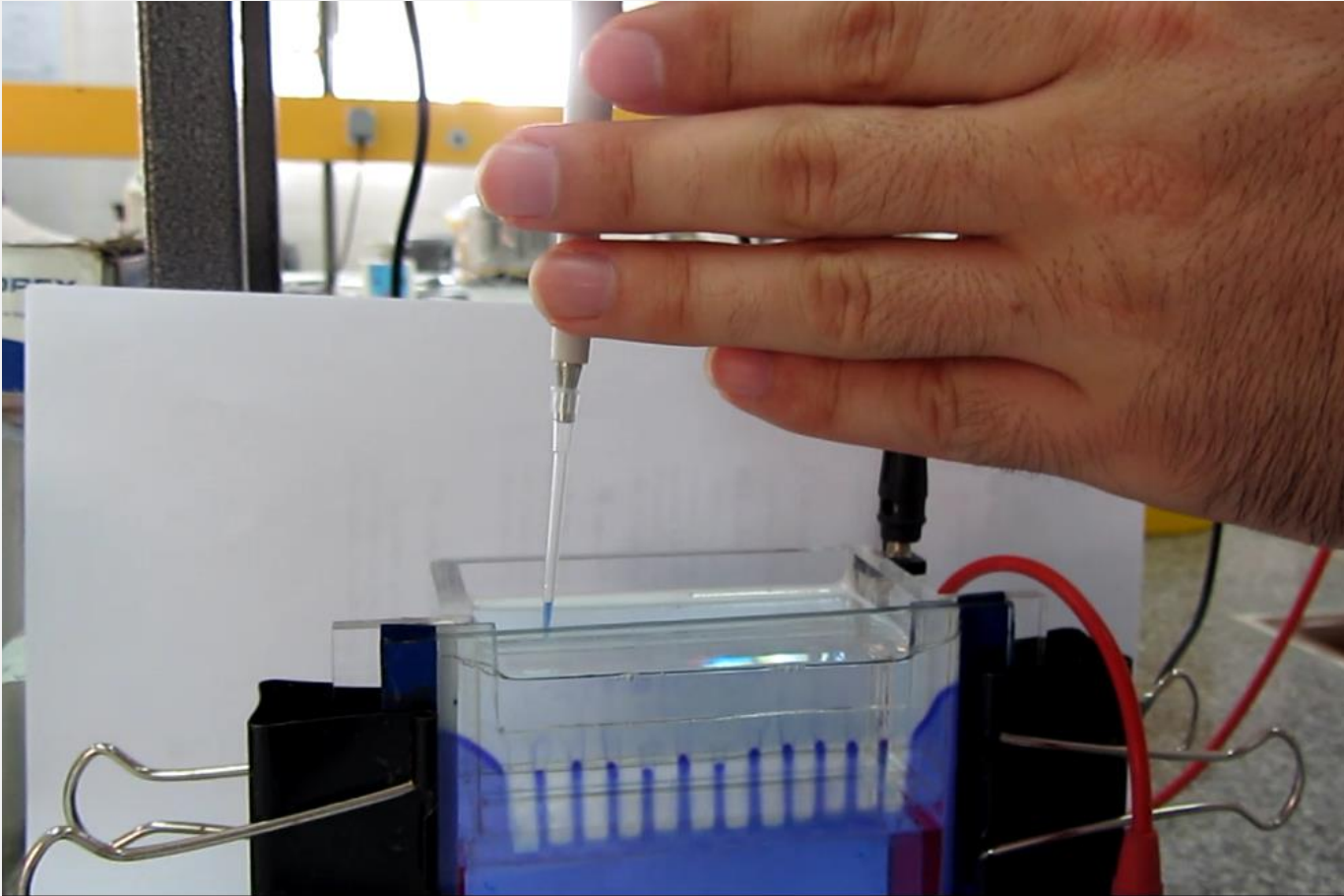
# Spectrophotofluorimetry Fluorimetry

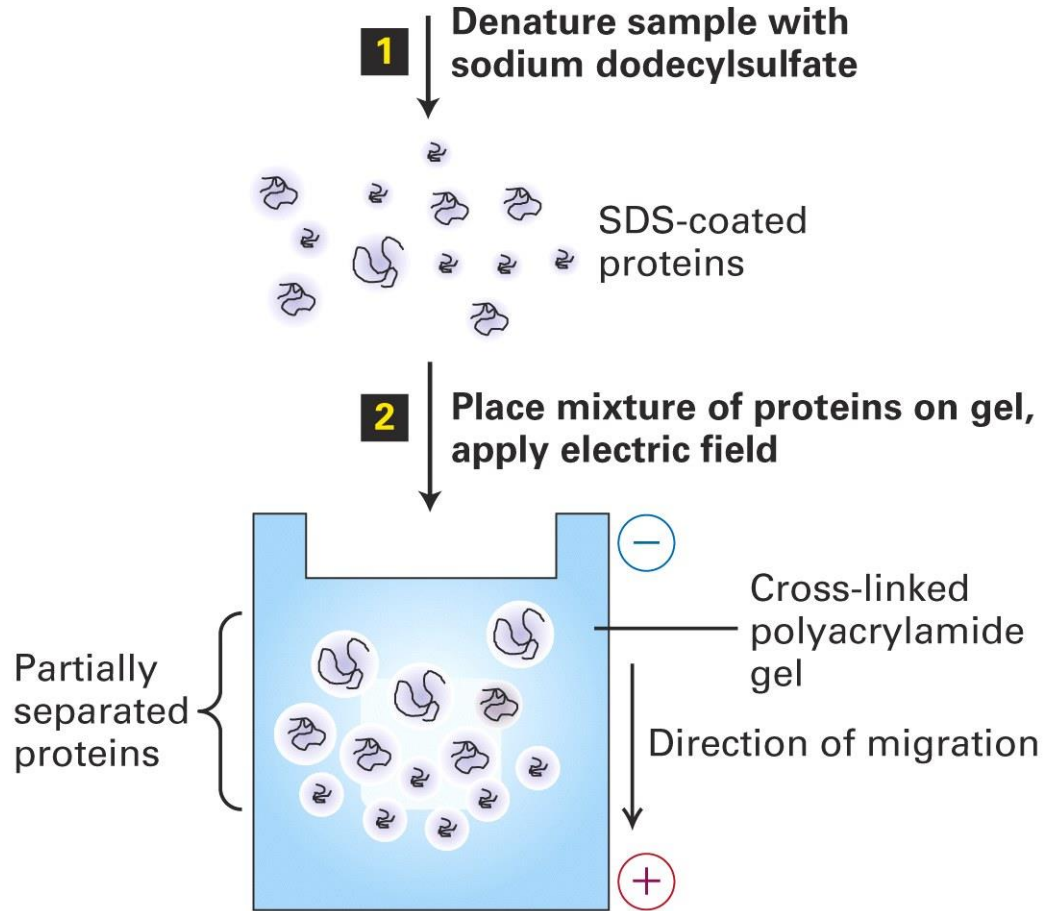


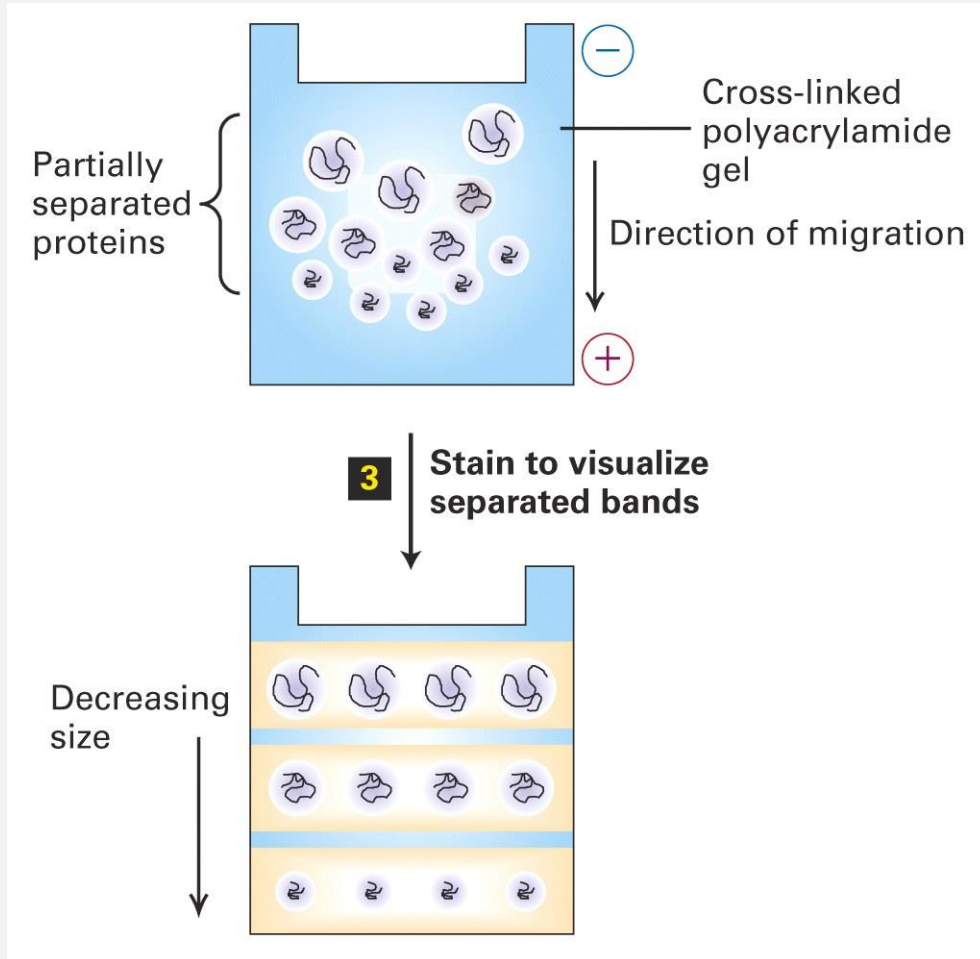


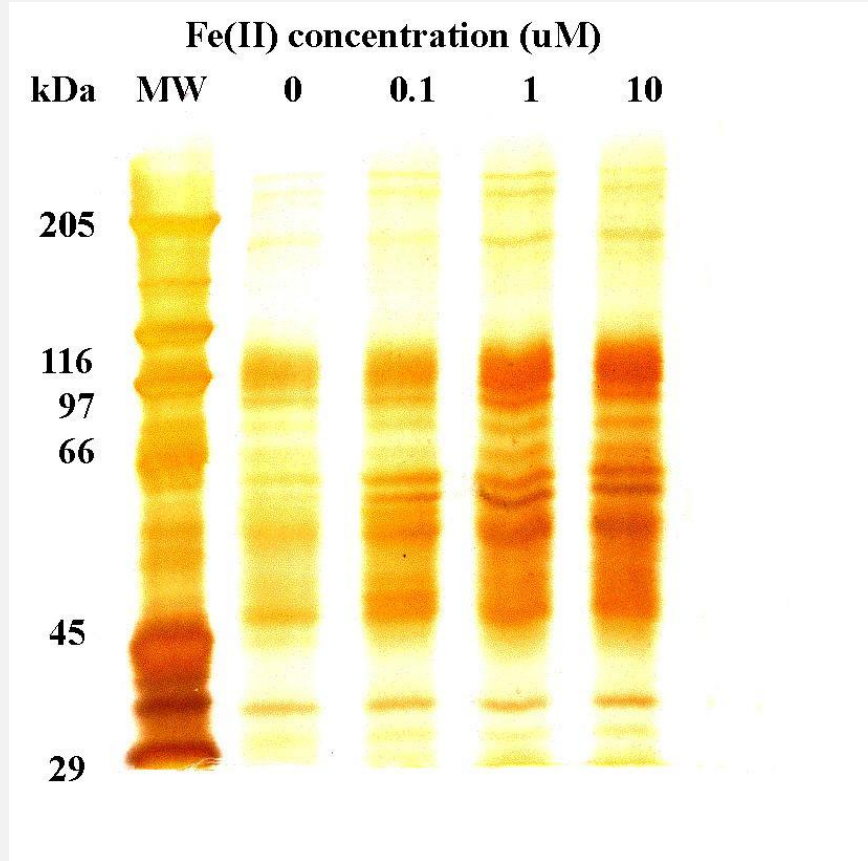
# Electrophoresis



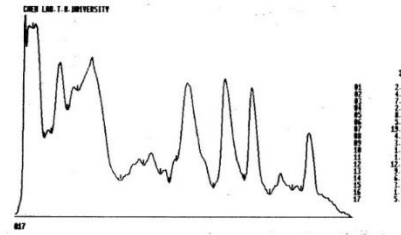




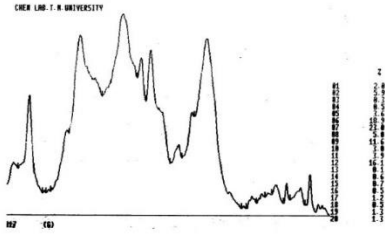




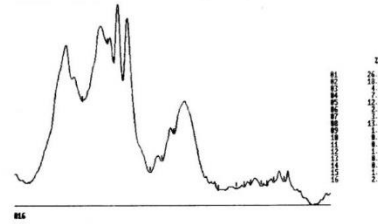
طرح تحقیقاتی: اثرات اکسیداتیو آهن بر غشای گلبول قرمز انسان



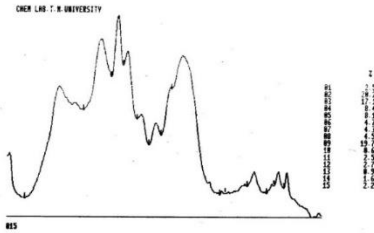
**MW**



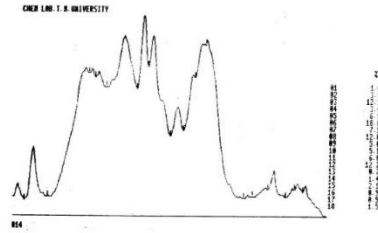
**0 uM**



**0.1 uM**



**1 uM**



**10 uM**

# Radioactivity

**TABLE 3-3**

**Radioisotopes Commonly Used  
in Biological Research**

<b>Isotope</b>	<b>Half-Life</b>
Phosphorus-32	14.3 days
Iodine-125	60.4 days
Sulfur-35	87.5 days
Tritium (hydrogen-3)	12.4 years
Carbon-14	5730.4 years



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برای مطالعه بیشتر به سایت در آزما مراجعه فرمائید:

[dezazma.com](http://dezazma.com)

## References:

1. Murray R.K., Granner D.K., Rodwell V.W. Harper's Illustrated Biochemistry, 30<sup>th</sup> edition. McGraw Hill, 2015.