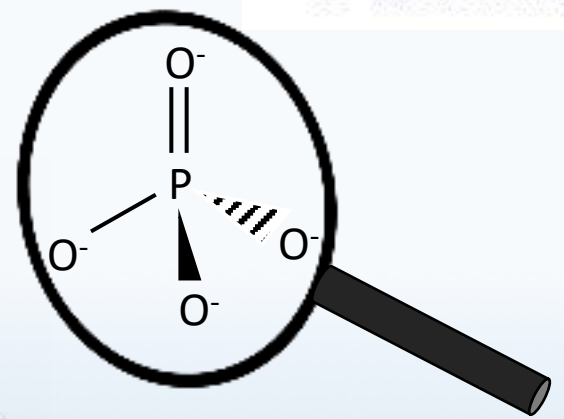


FINDING PHOSPHORUS !

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INTRODUCTION

Preparation of **parenteral nutrition (PN)** bags for neonatology by our service

Routine dosage to release bags: **Na, K, Ca, Mg**

Setting up the routine **P dosage of PN bags, following the discovery of a hyperphosphoremia**

RESULTS

- 1 year of retrospective study
- 30 PN preparations and 10 known concentration solutions tested

Agilent laboratory contact :
 P intensity is weaker than the other elements
 → **Need to use a more concentrated calibration range**

☹️ Multielementary routine dosage → a too high quantity of P **interferes with the dosage and distorts the results**

CONCLUSION

- ❌ **Multielementary routine dosage impossible in our conditions**
- ✅ **Monelementary dosage occasionally possible**

Tracks :

- ↗ signal read time
- ↘ samples dilution

MATERIALS & METHODS

- 1° **Calibration range (CR)** of low, medium and high usual concentrations
- 2° Test of samples from our production and solutions of known concentrations
- 3° Comparison with expected theoretical concentrations: **aim of a relative bias < 5%**

CR 1, 10, 20 mg/L	CR 100, 200, 500 mg/L
Relative bias = 20%	Relative bias = 10%



Flame spectrometer MP-AES 4210

COM20-65647