**Effects of Ochratoxin A on membrane phospholipids ofthe intestine ofbroiler chickens (Practical consequences)**

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**Table S1**: Results of quality control of lipid analysis of broiler’s intestine by gas chromatography

|  |  |
| --- | --- |
| Parameter | Value |
| Accuracy | 99.12 ± 6.05 |
| Slope | 1724 |
| Intercept | -15.8 |
| Linearity Range | 0,1:10 µg/ml |
| Correlation Coefficient | 0.99 |
| LOD\* | 0.01 |
| LOQ\*\* | 0.03 |

\*: Limit of Detection, \*\*: Limit of Quantification

**Supplementary Material S1:** Codes of statistical models

*Identify factors*

Dataset$factor1<- as.factor(Dataset$factor1)

*Anova with 2 factors*

aov1<- aov(activity~factor1\_factor2\*timing, data=table)

summary(aov1)

*Normal pattern residue distribution (Shapiro-Wilk’s test)*

aov\_residuals<- residuals(object = model1)

shapiro.test(aov\_residuals)

(The assumption of normality is accepted for a P value greater than 0.05)

*Homogeneity of group variances (Levene test)*

leveneTest(activity~factor1\_factor2\* timing, data = table)

(The assumption of homogeneity of variances is accepted for a P value greater than 0.05)

*Psthoc test (equivalent to Duncken’s test)*

TukeyHSD(aov1)

*Boxplot*

intestin<-as.factor(Data$Intestin)

Control<-(c(Data[,2]))

Ochratoxin\_A<-(c(Data[,3]))

Deodunum<-Data[1:6,]

Jejunum<-Data[7:13,]

Ileum<-Data[14:20,]

A<-c(Control)

pop<-c(rep("a", 6), rep("b", 6), rep("c",6))

data1<-data.frame(A,pop)

data1

summary(data1)

boxplot(data1$A~data1$pop, ylab="Lipid quantity (mg/GFM)", names=c("Deodunum", "Jejunum", "Ileum"))

B<-c(Ochratoxin\_A)

data2<-data.frame(B,pop)

boxplot(data2$B~data2$pop, ylab="Lipid quantity (mg/GFM)", names=c("Deodunum", "Jejunum", "Ileum"))

par(mfrow=c(1,2)) # supperpose les figures en ligne

par(mfcol=c(2,1)) # supperpose les figures en colone

par(mfrow=c(2,1))

boxplot(data1$A~data1$pop, ylab="Lipidquantity (mg/GFM)", names=c("Deodunum", "Jejunum", "Ileum"))

legend("topright", legend = c("A"), cex=1, bty="n", inset = c(0.03, 0.03), text.font=2)

boxplot(data2$B~data2$pop, ylab="Lipid quantity (mg/GFM)", names=c("Deodunum", "Jejunum", "Ileum"), xlab="Intestinal segment")

legend("topright", legend = c("B"), cex=1, bty="n", inset = c(0.03, 0.03), text.font=2)