

# Reporte de análisis — ecoli

## Distribución de clases

Clase	Conteo	Proporción (%)
cp	143	42.56
im	77	22.92
pp	52	15.48
imU	35	10.42
om	20	5.95
omL	5	1.49
imL	2	0.6
imS	2	0.6

## Métricas clave del dataset

cantidad_muestras	336
cantidad_atributos	7
cantidad_clases	8
clase_minima_real	imL
clase_mayoritaria_real	cp
n_min	2
n_max	143
ratio_desequilibrio_max	71.5
entropia_clases	1.517122829944031
tamano_efectivo_clases	4.55908903227066
porcentaje_faltantes	0.0
porcentaje_duplicados	0.0
asimetria_mediana	0.4123685669502634
curtosis_mediana	0.23776664098540579

porcentaje_variables_con_normalidad_no_rechazada	0.0
correlacion_absoluta_maxima	0.8093236143460583
porcentaje_pares_correlacion_mayor_0_9	0.0
rango_mediano_variables	0.8799999952316284
rango_maximo_variables	0.9900000095367432
sugerencia_escalado	MinMaxScaler

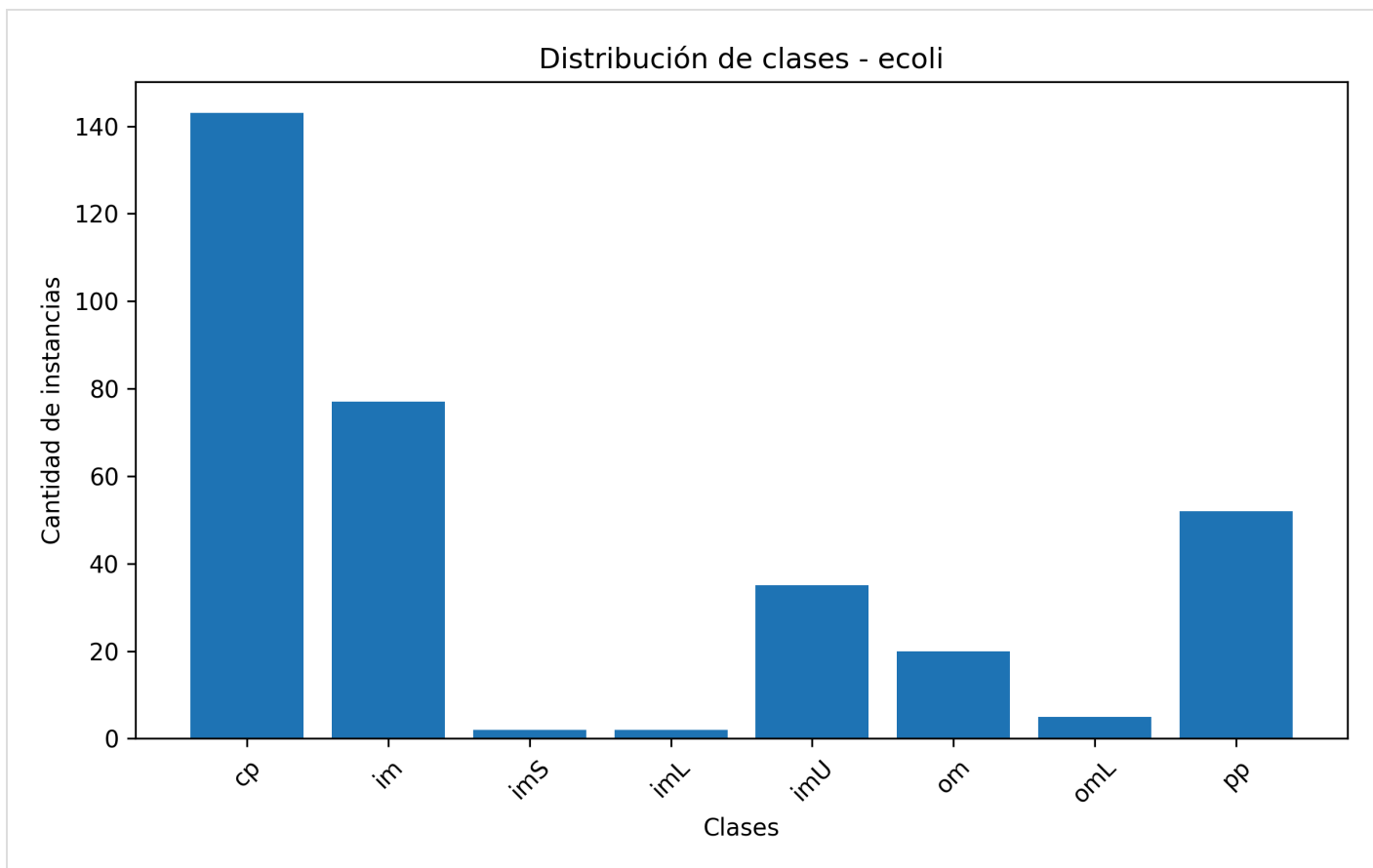
## PCA — Varianza explicada

PC1: **0.516** · PC1+PC2: **0.76** · PC1+PC2+PC3: **0.845**

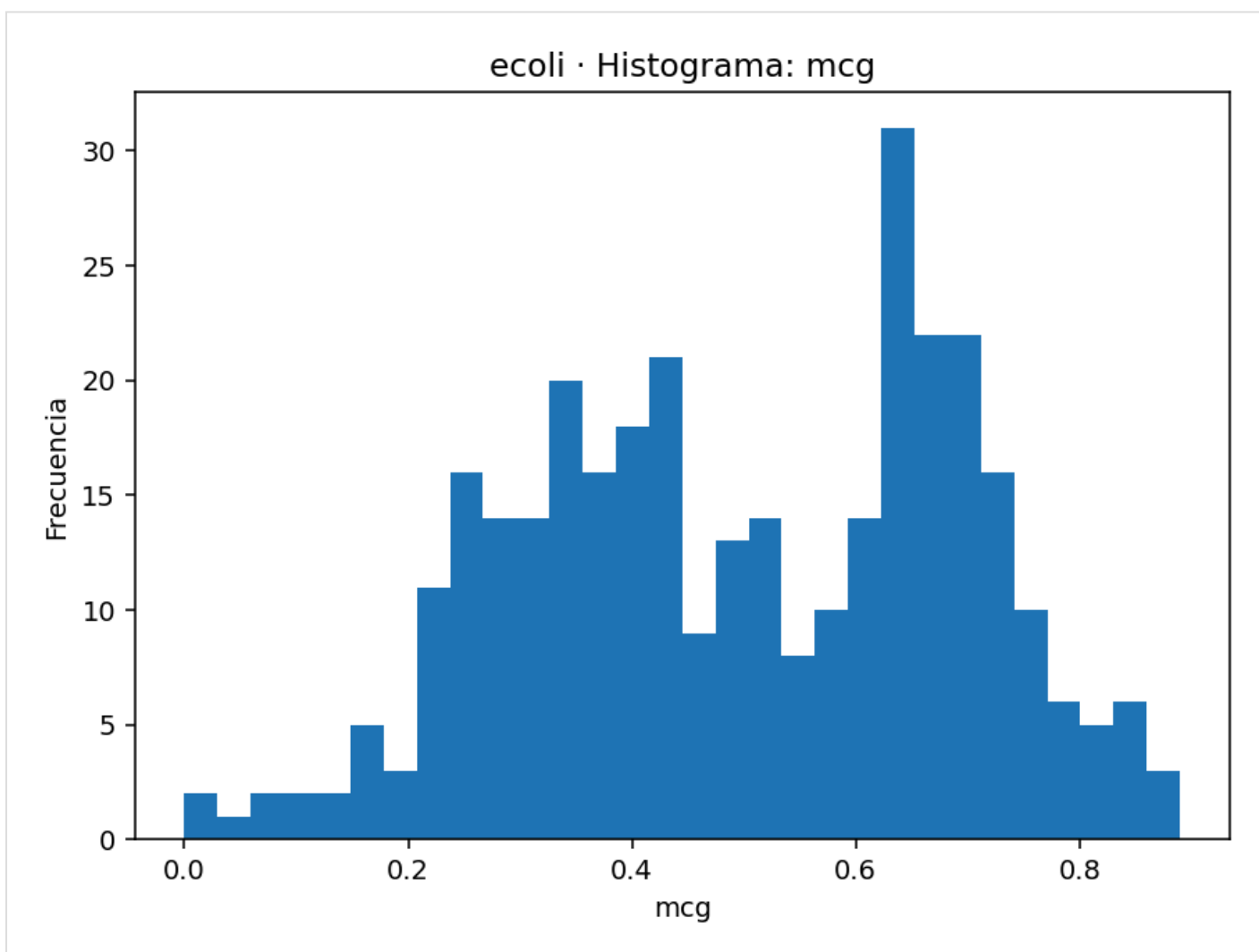
Componente	Varianza explicada
PC1	0.516168
PC2	0.244203
PC3	0.084199
PC4	0.074135
PC5	0.049104

## Figuras

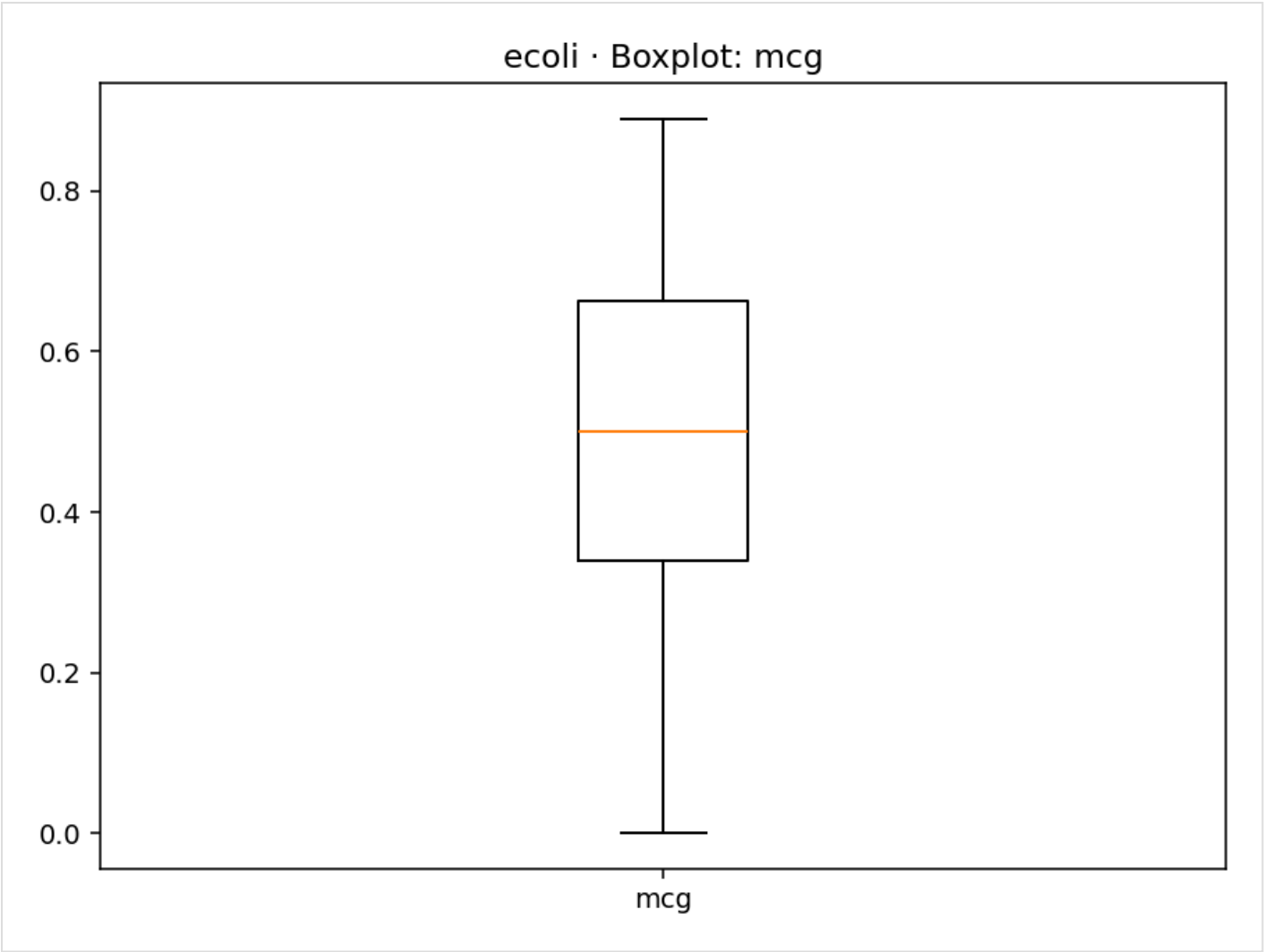
Distribución de clases



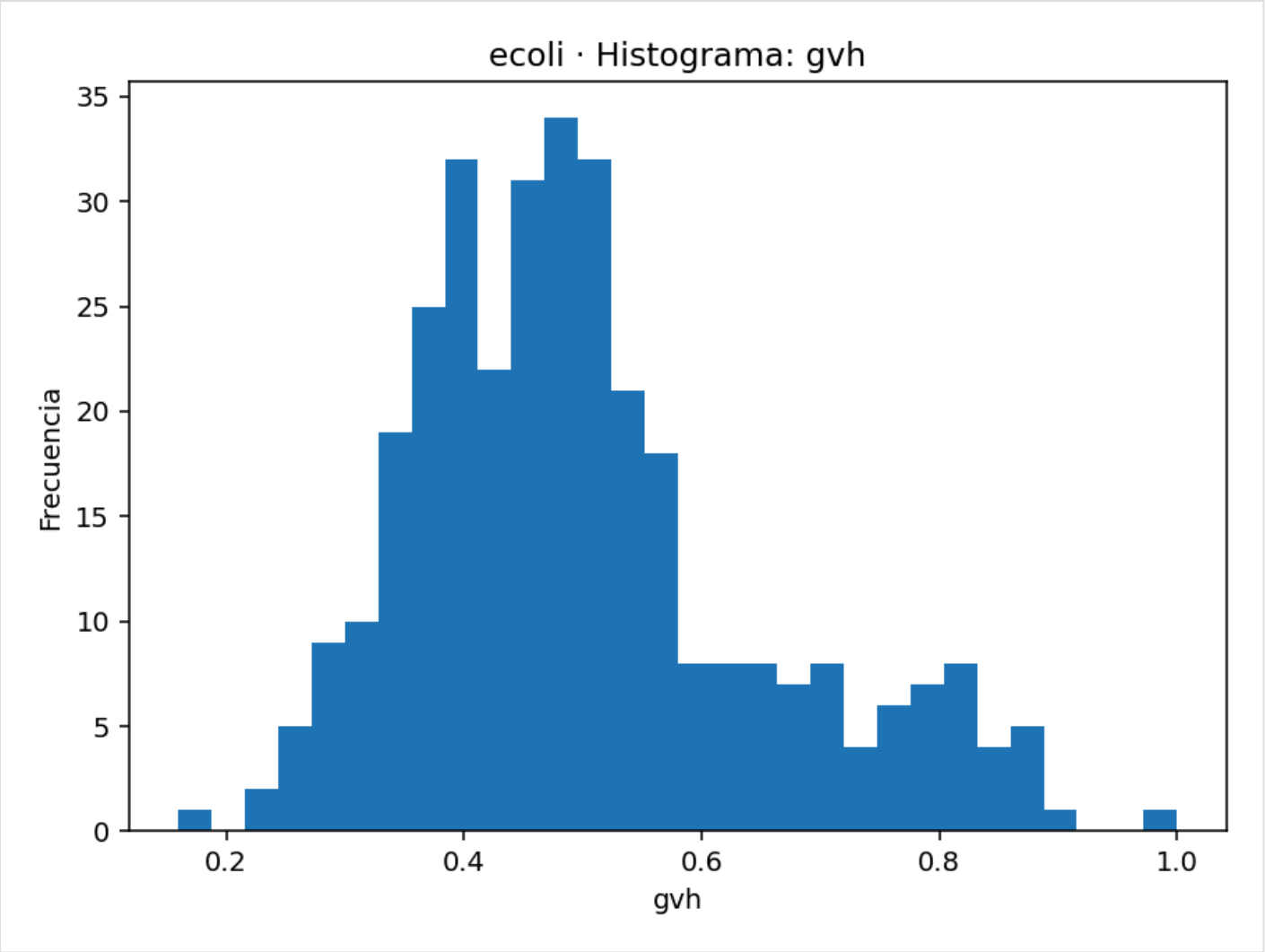
## Histograma: mcg



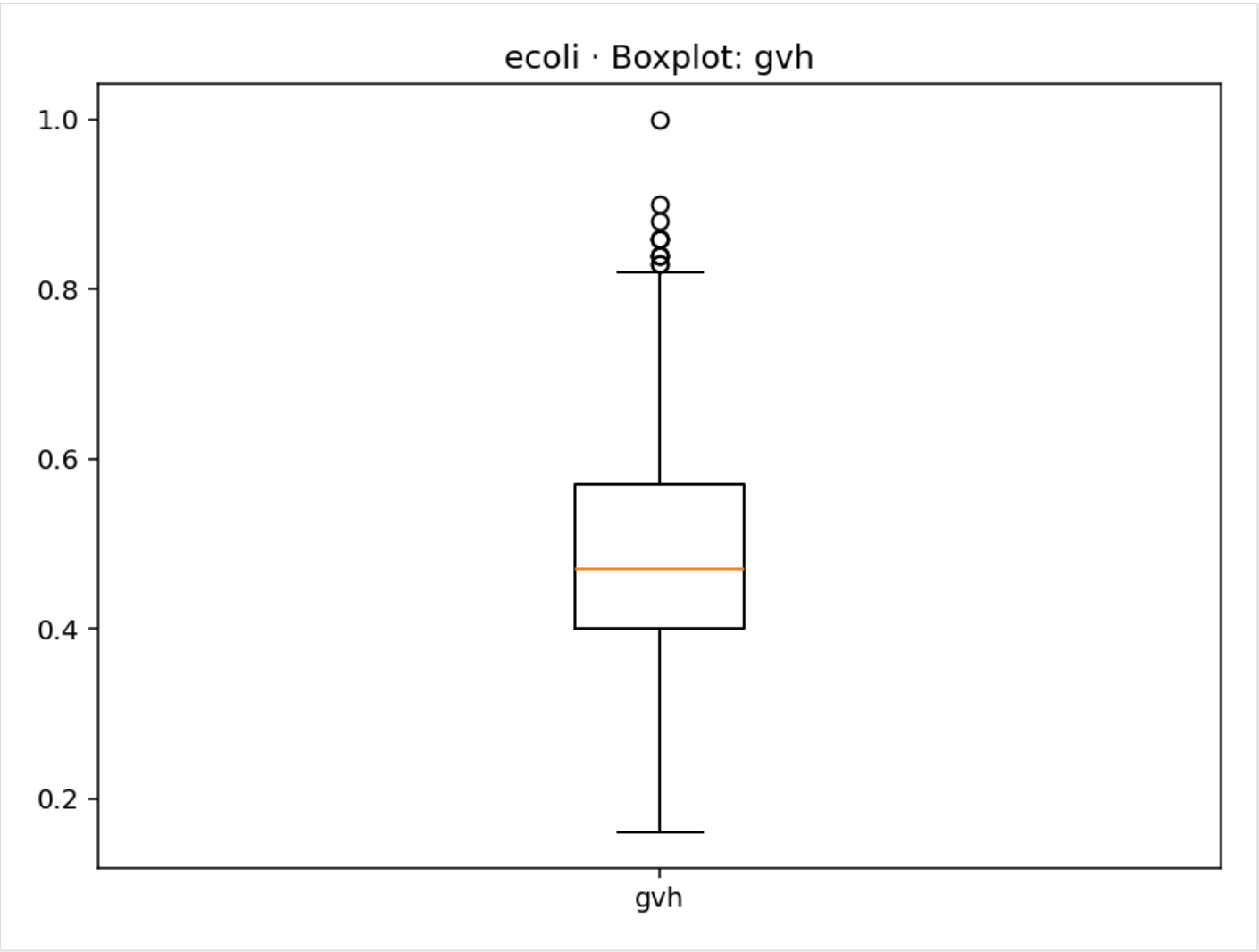
Boxplot: mcg



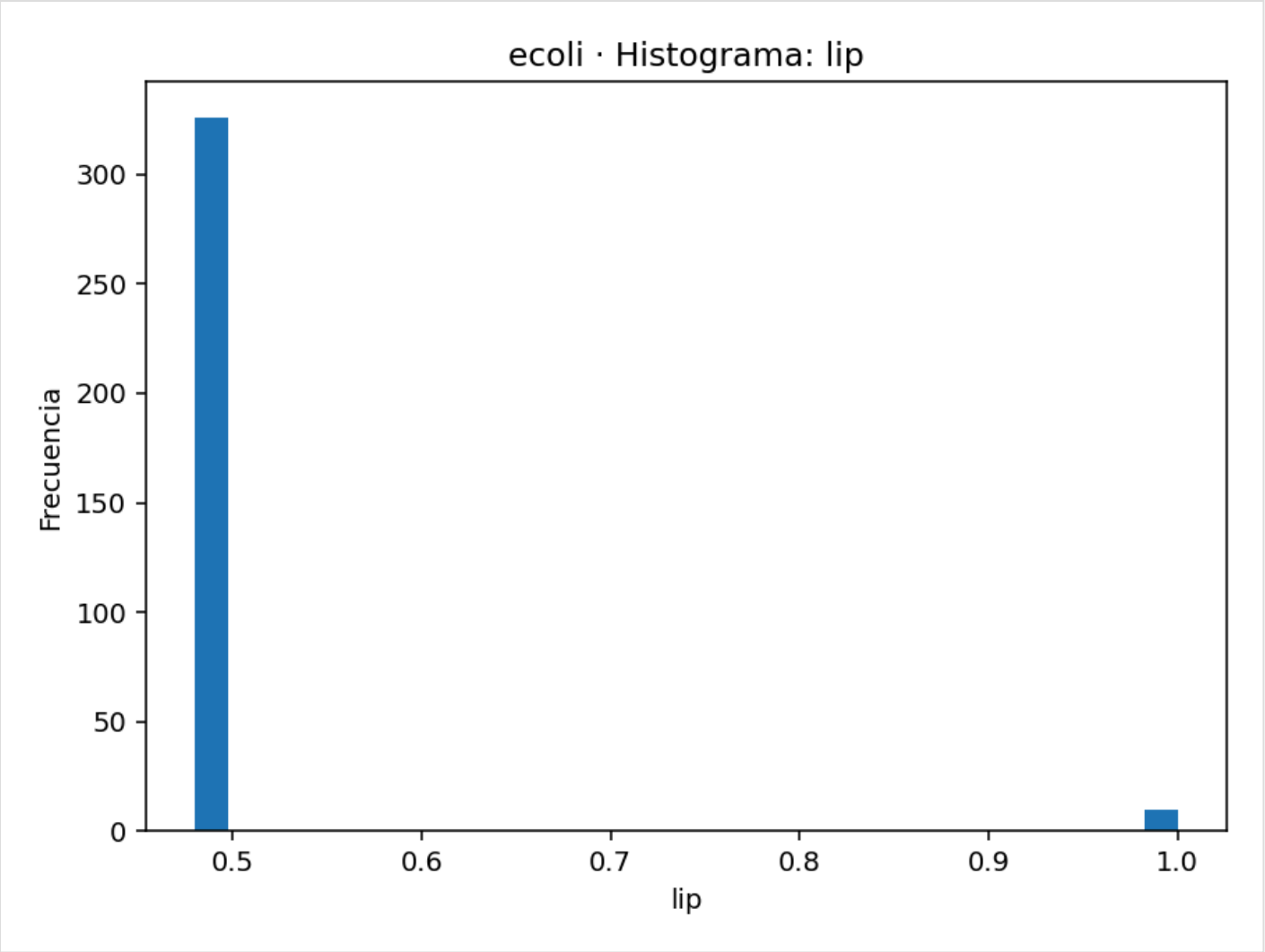
Histograma: gvh



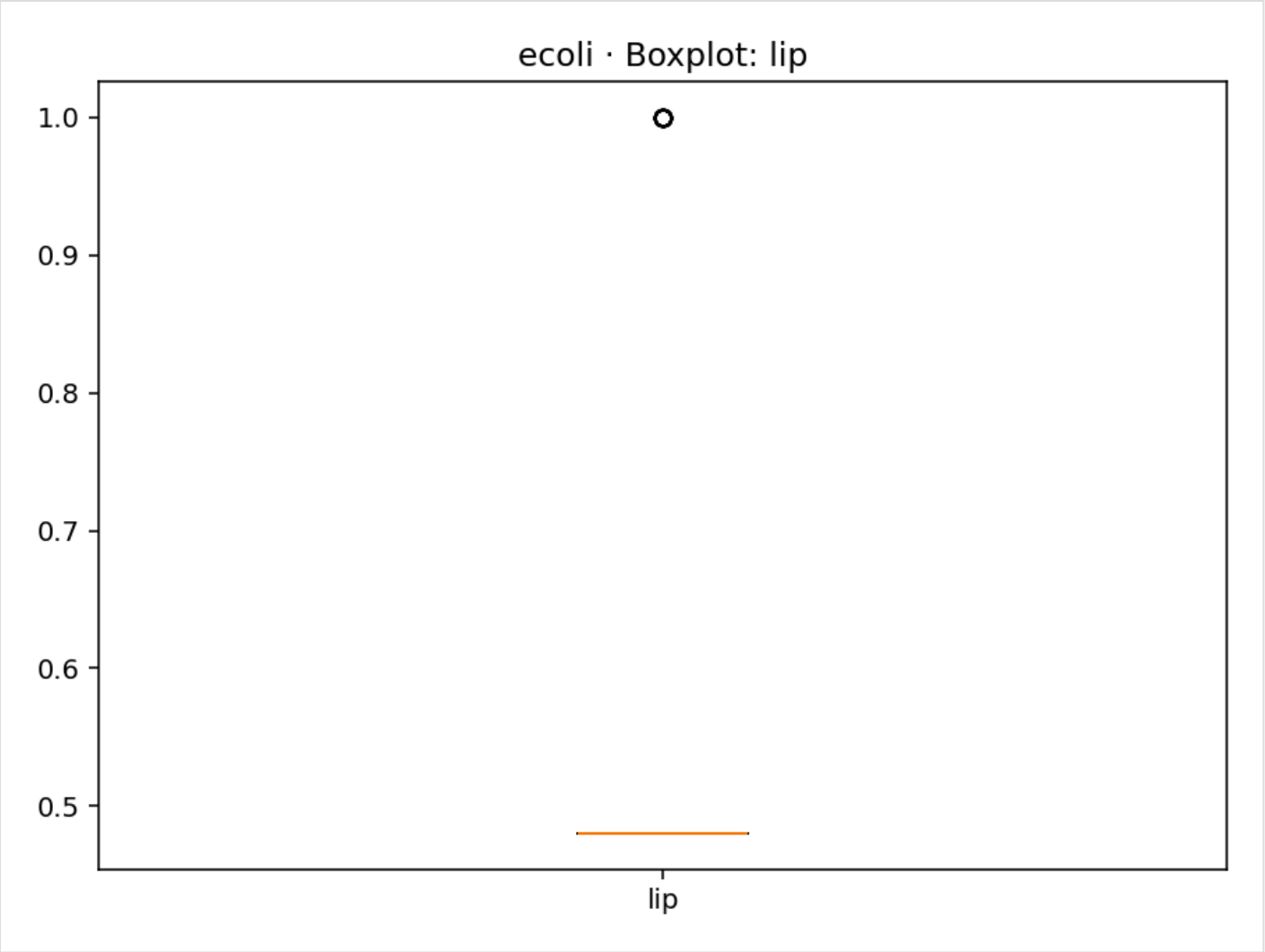
Boxplot: gvh



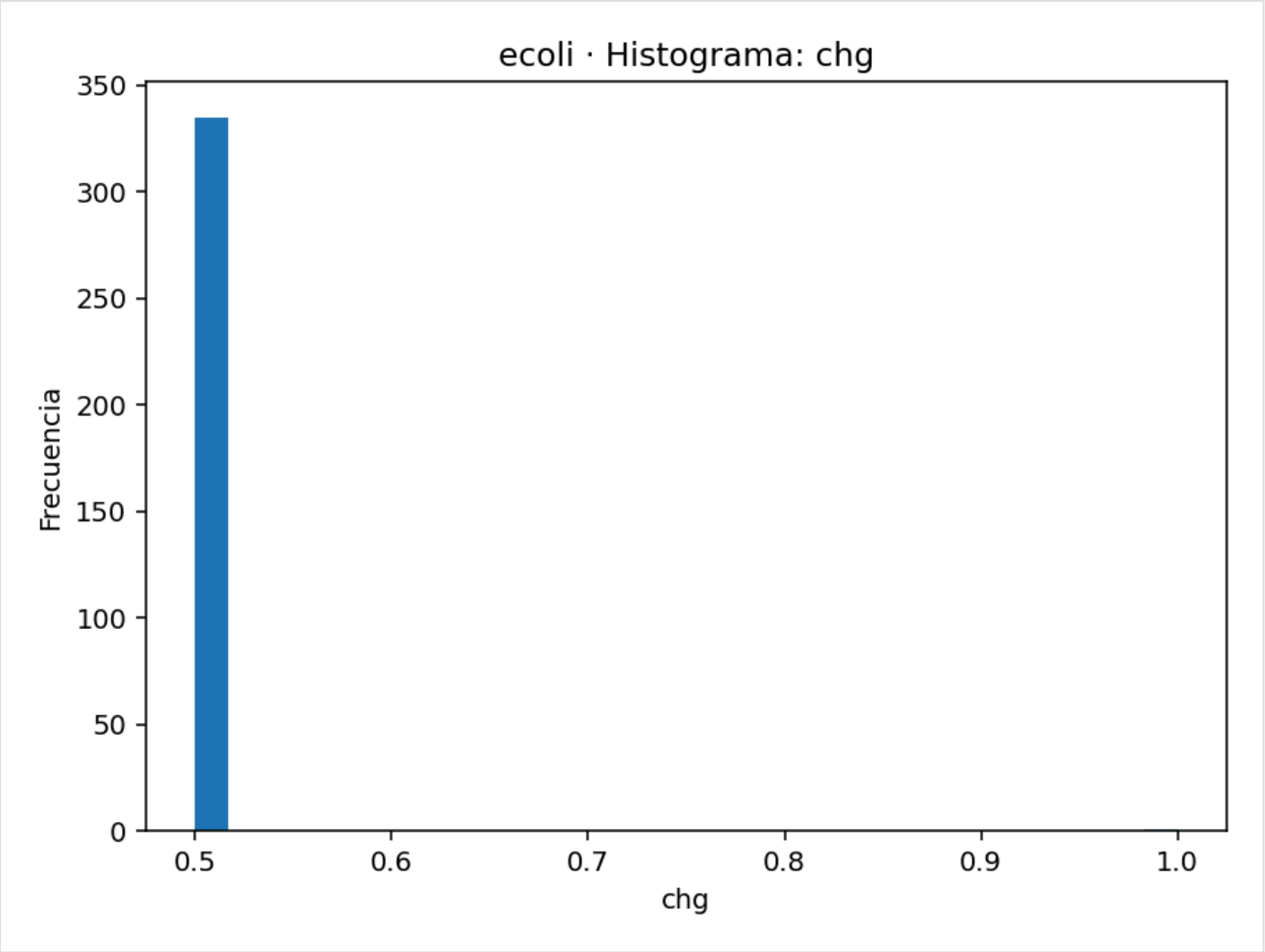
Histograma: lip



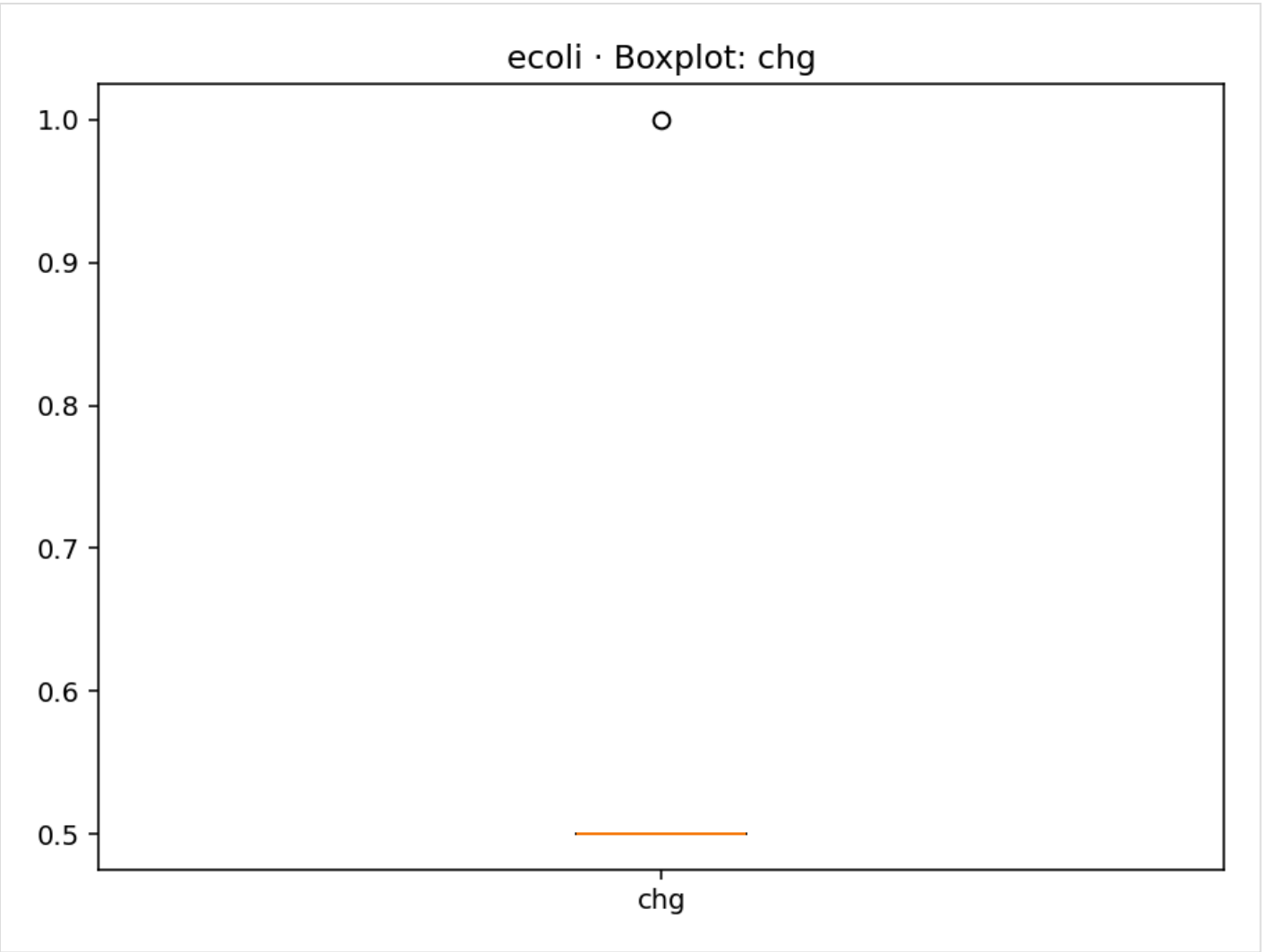
**Boxplot: lip**



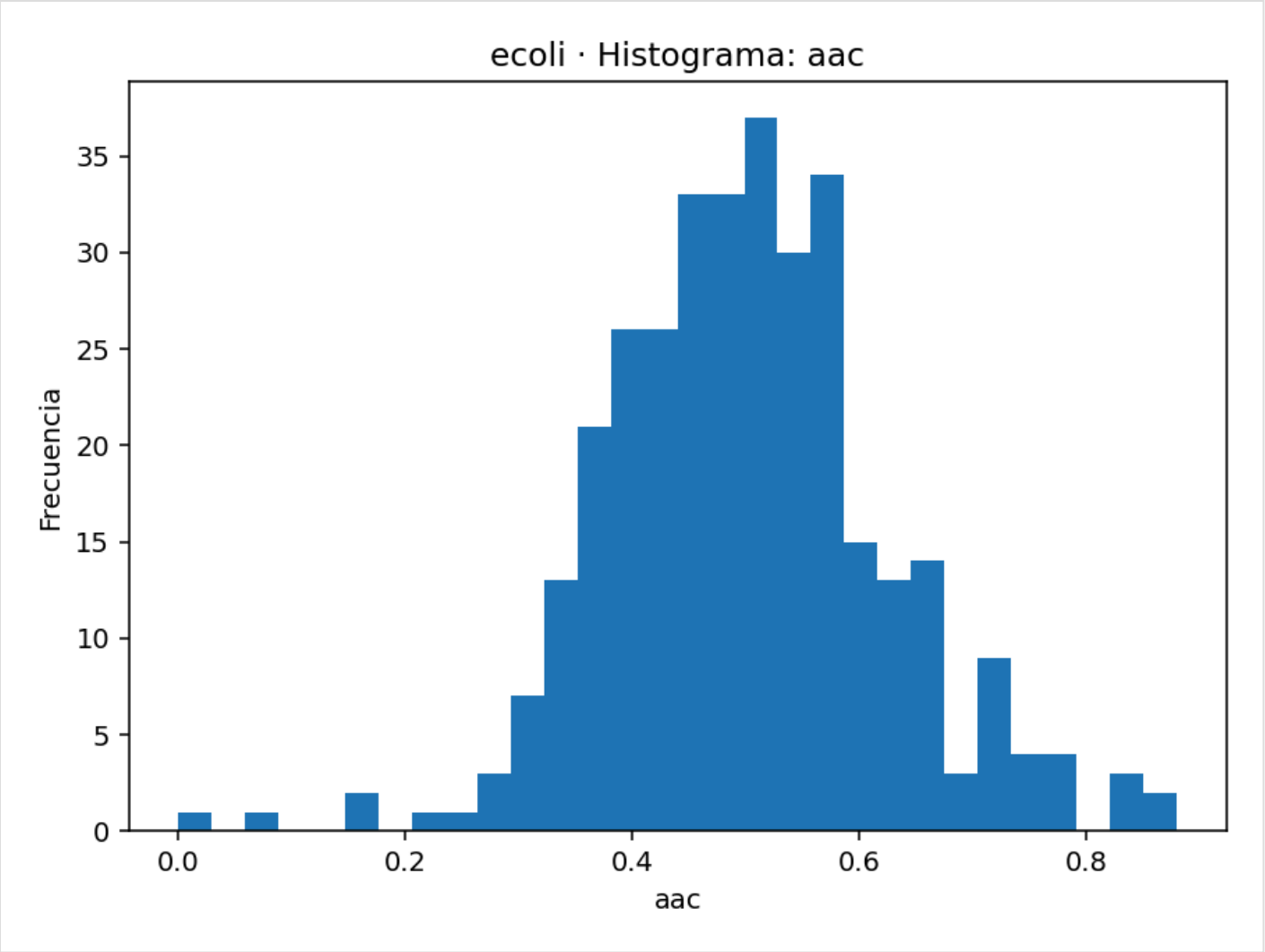
Histograma: chg



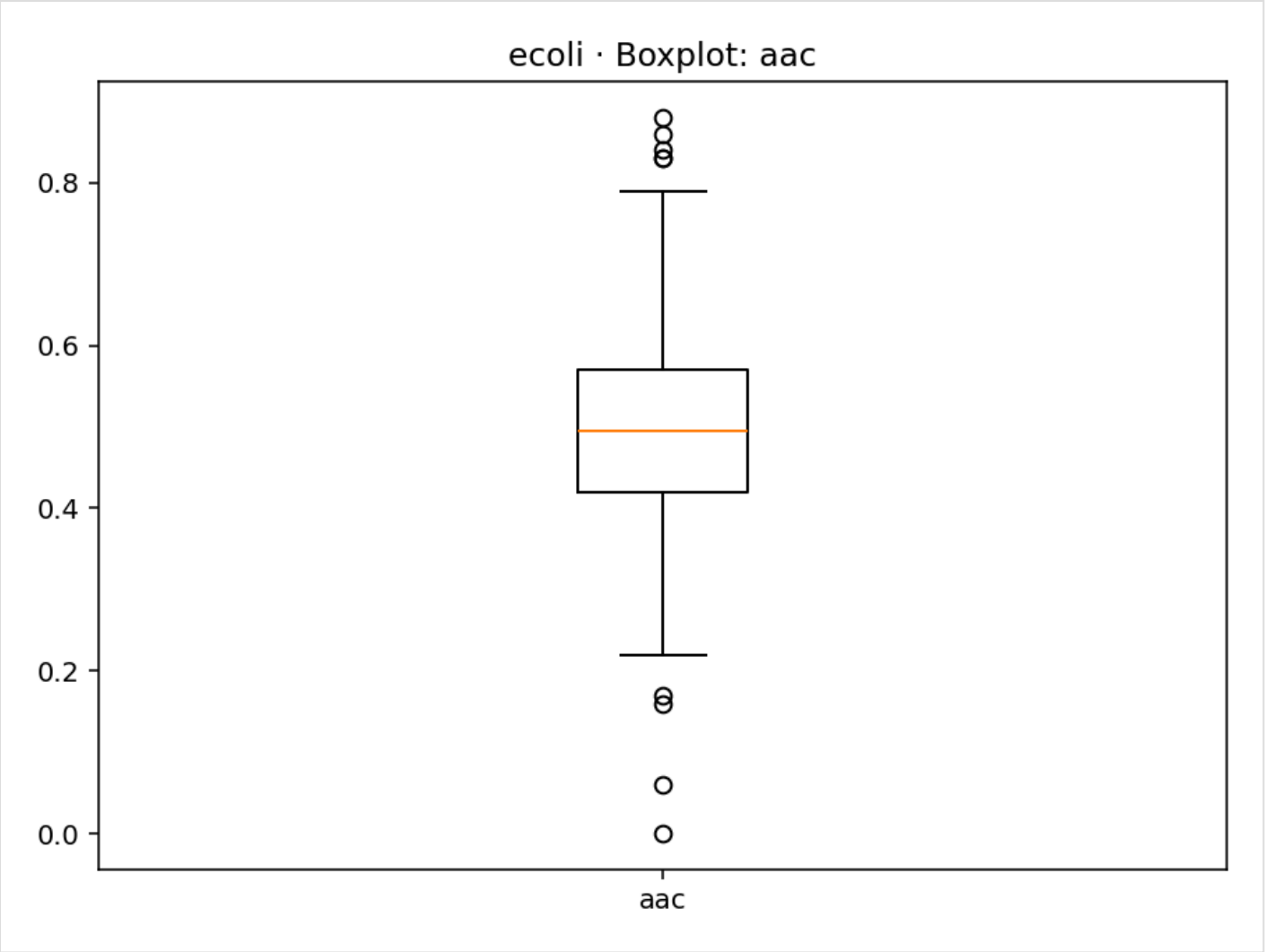
**Boxplot: chg**



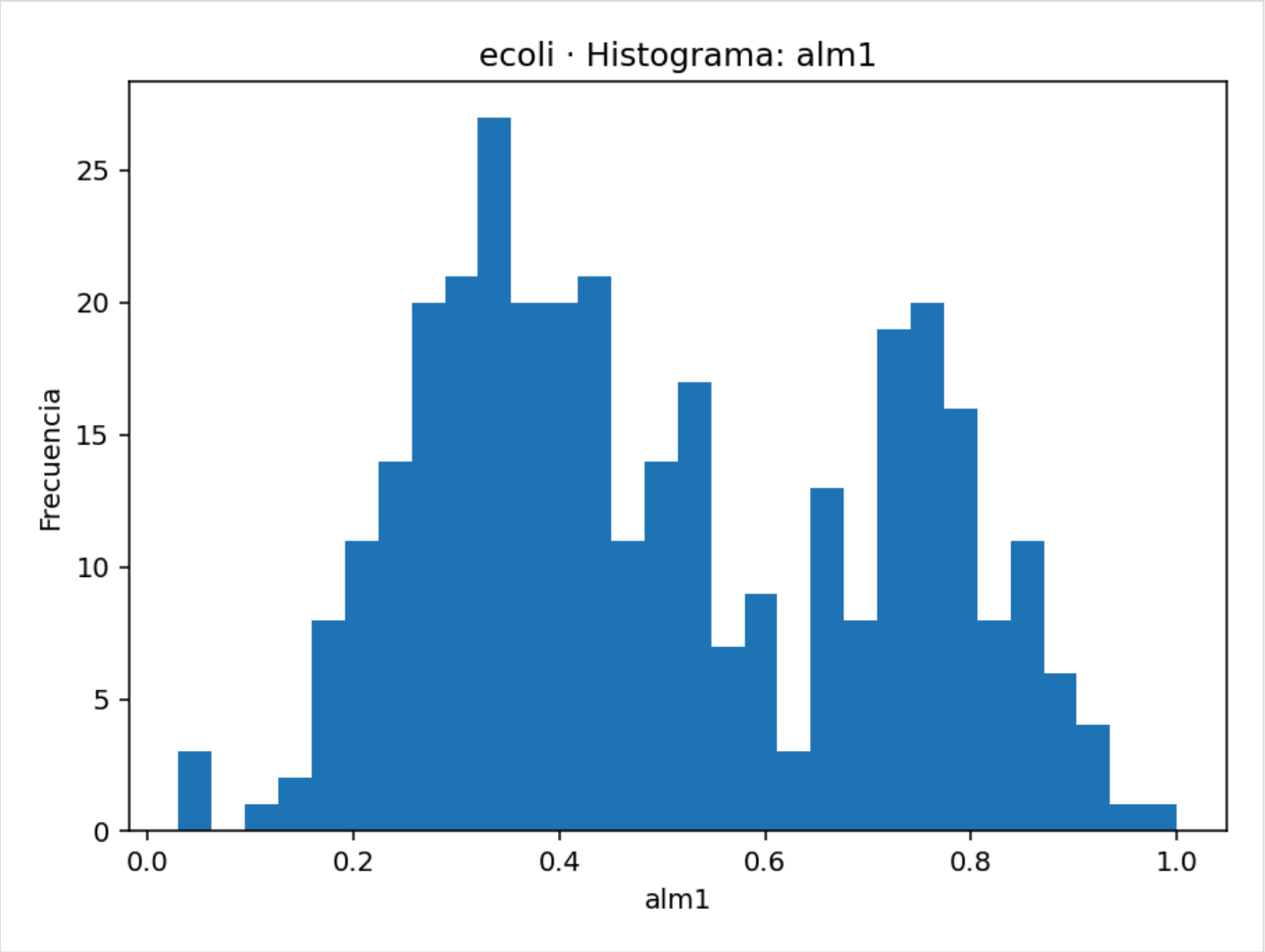
Histograma: aac



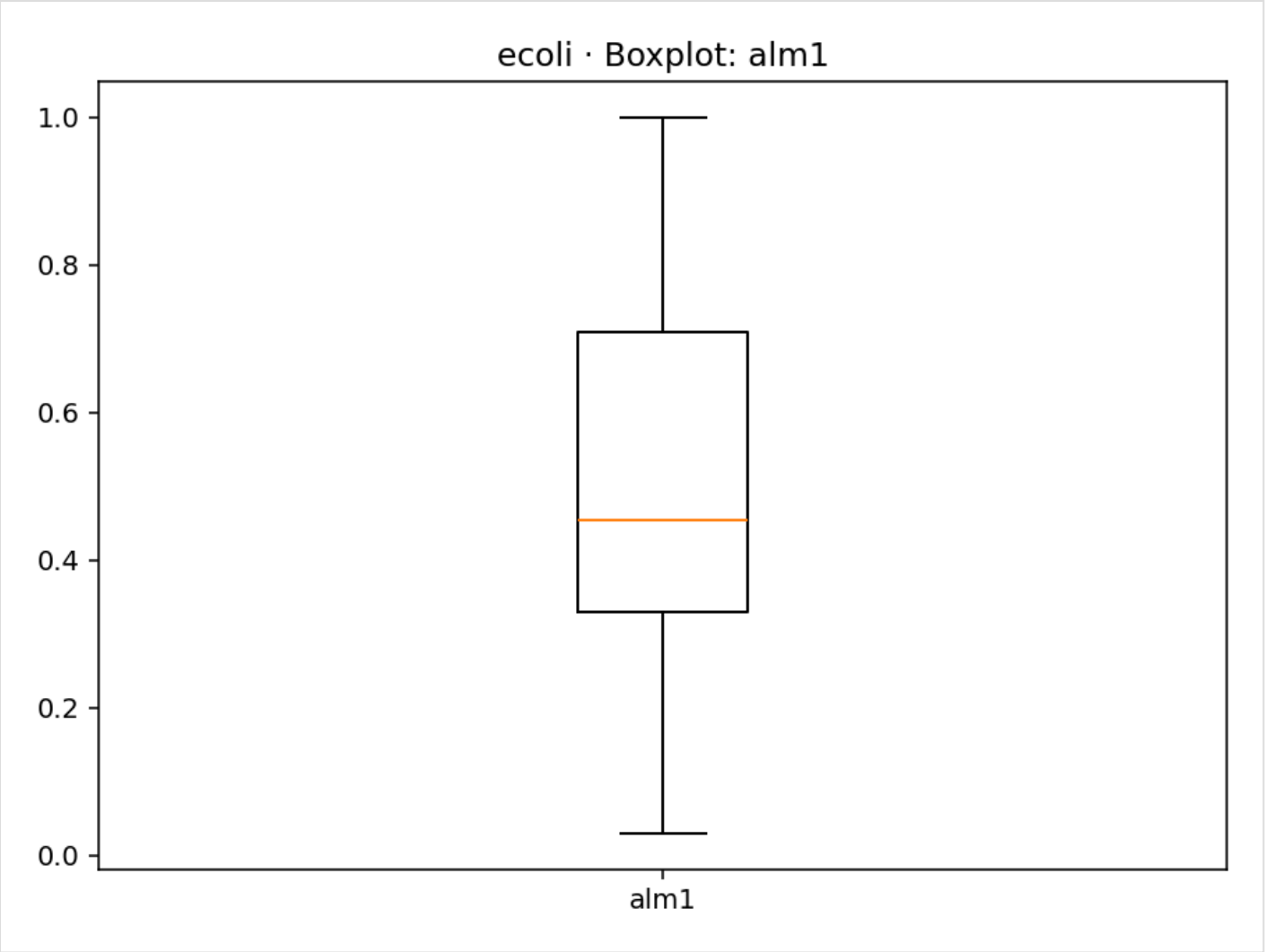
Boxplot: aac



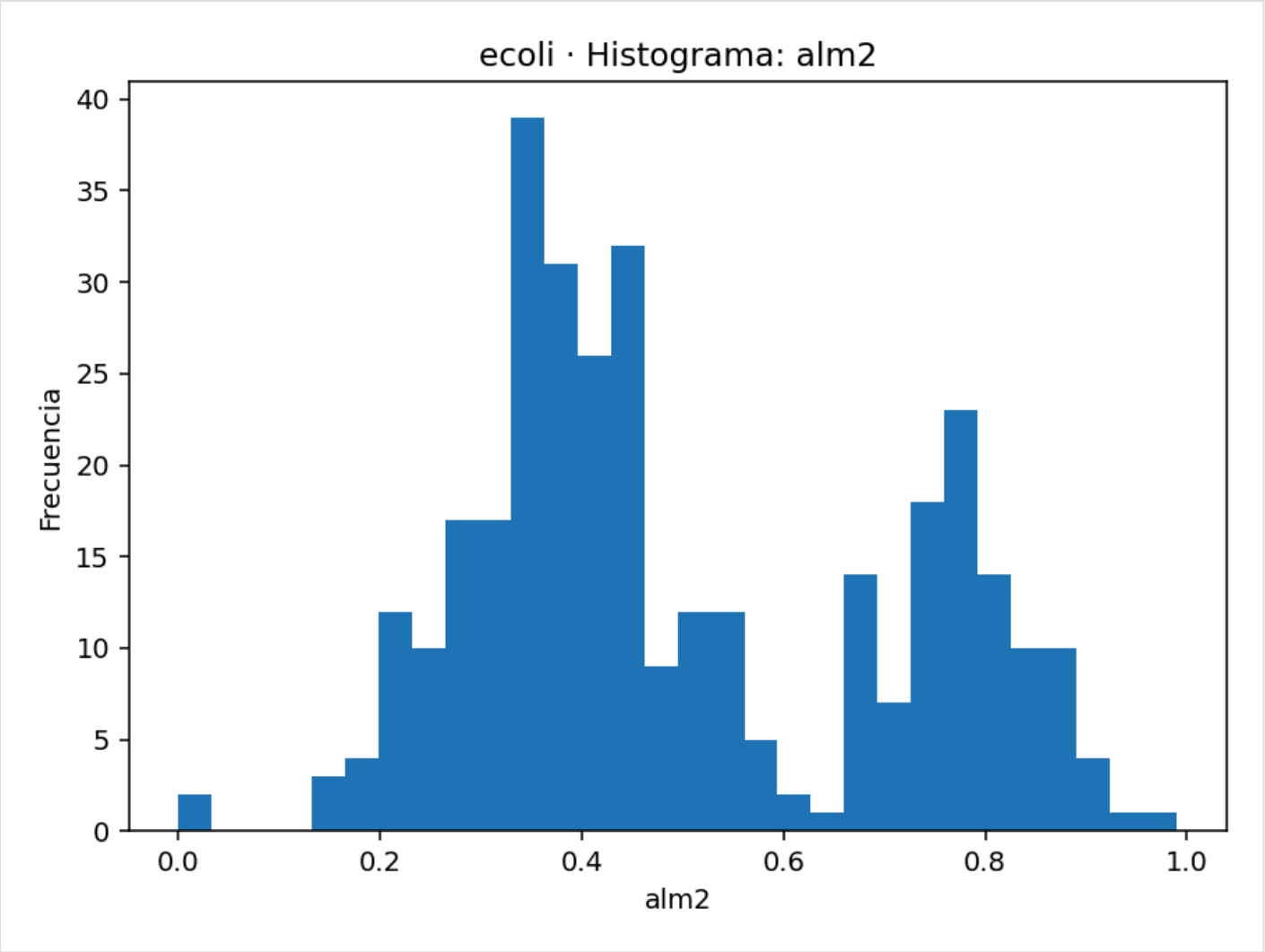
Histograma: alm1



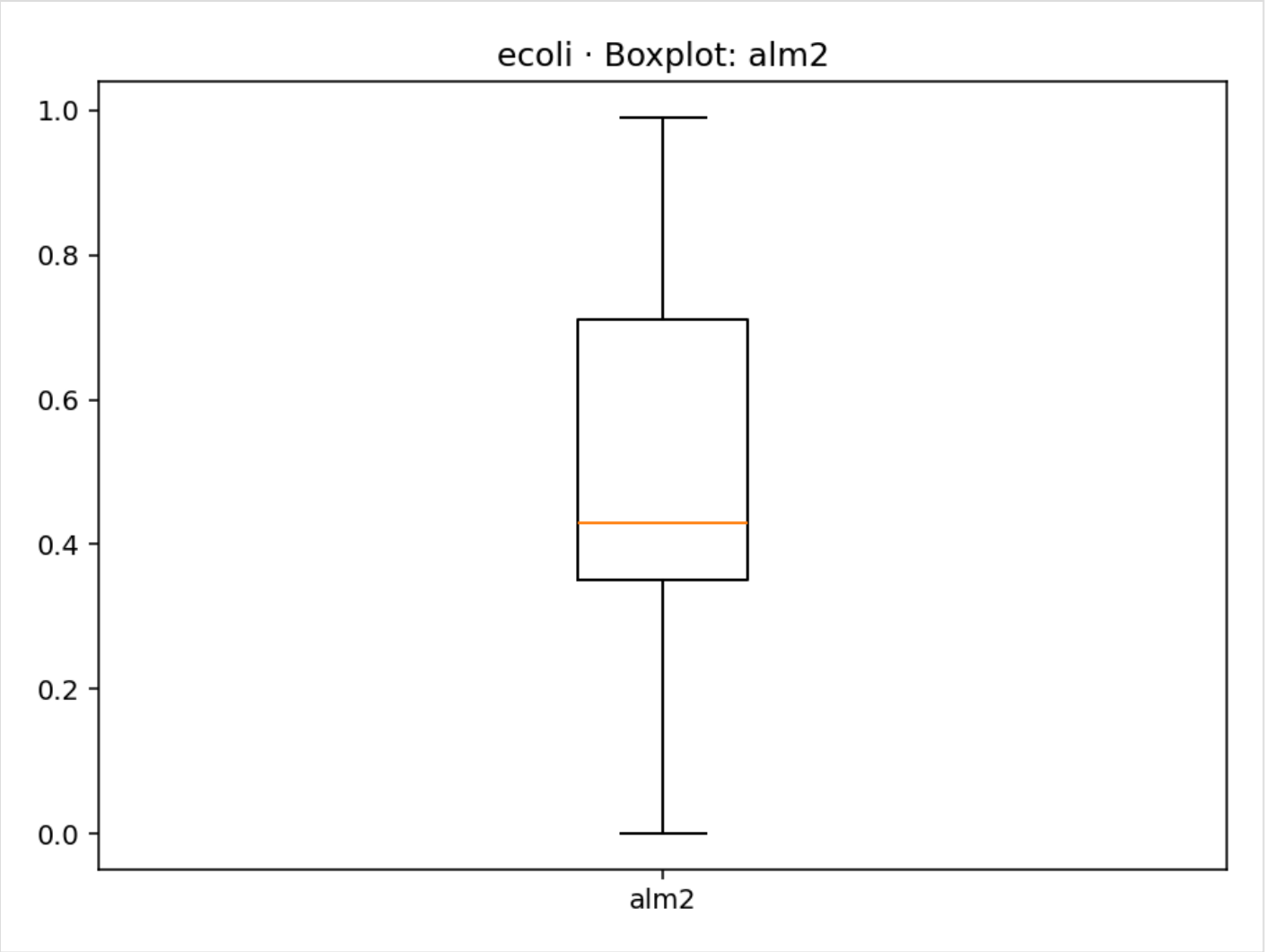
Boxplot: alm1



Histograma: alm2



**Boxplot: alm2**



**Matriz de correlaciones**

ecoli · Matriz de correlaciones (Pearson)

