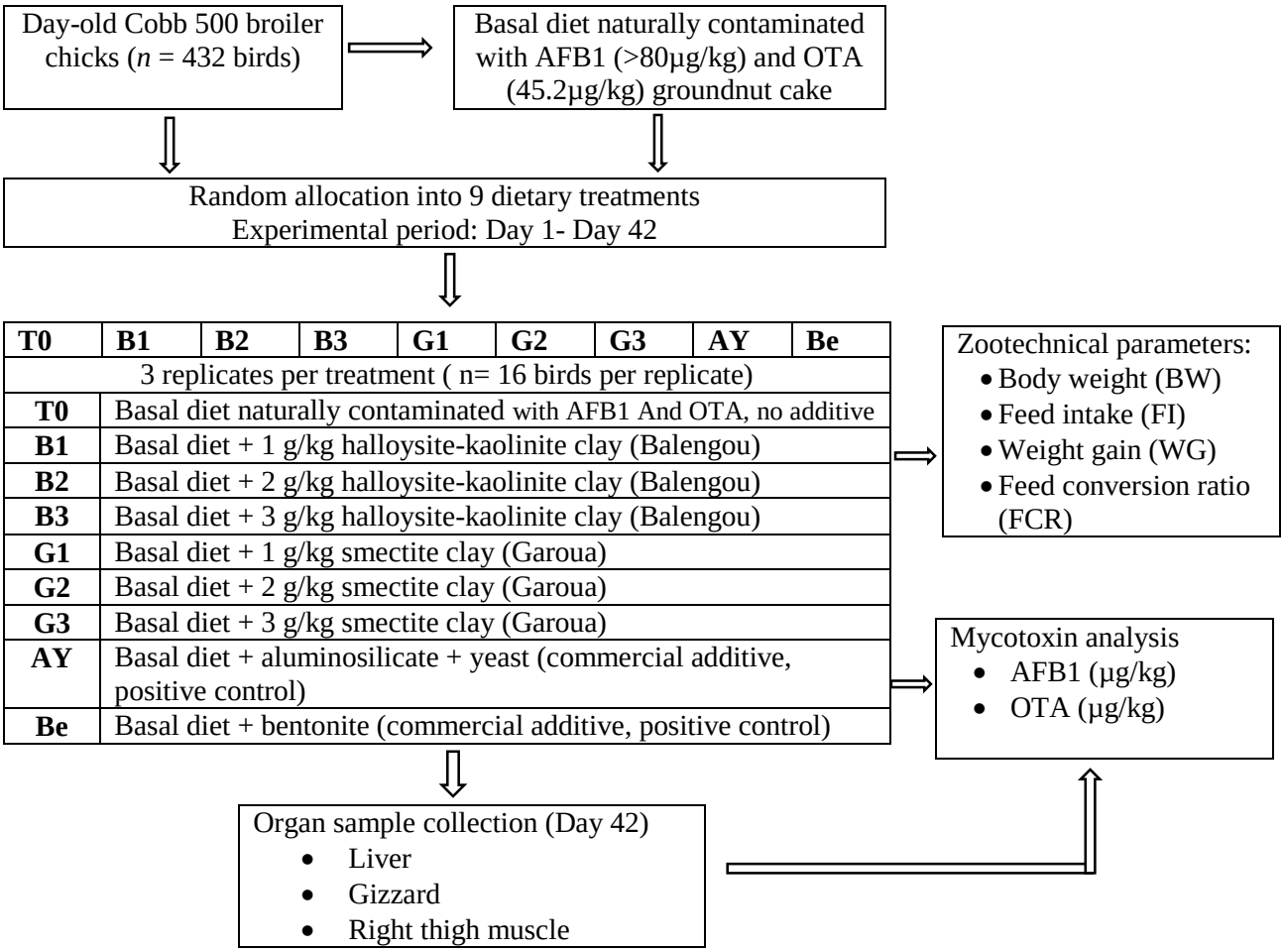

Supplementary figure S1: Experimental design of the study

Supplementary Table S1. Composition of the experimental diet

Ingredients (%)	**Starter phase (1- 21 days)**	**Finisher phase (22-42 days)**
Corn	60.0	66.0
Soybean meal	19.0	13.0
Fish meal	5.0	4.0
Groundnut cake	10.0	11.0
Oyster shell powder	1.0	1.0
Premix 5%[a]	5.0	5.0
Total	100	100
Calculated Chemical composition		
Metabolizable energy (kcal/kg)	2962.0	3009.0
Crude protein (%)	23.7	21.2
Ash (%)	9.7	5.3
Lipids (%)	3.3	4.9
Crude fibre (%)	3.8	4.2
Lysine (%)	1.4	1.2
Methionine (%)	0.5	0.4
Calcium (%)	1.2	1.1
Available Phosphorus (%)	0.4	0.4

[a] Premix 5%: Crude Protein 40 %, Calcium 8 %, Phosphorus 2.05 %, Lysine 3.3 %, Methionine 2.4 %, Metabolizable energy 2078 kcal/kg.

Supplementary Table S2. Recovery tests for mycotoxins detection in broiler tissues. Preliminary recovery verification results

Parameter	**Value test 1**	**Value test 2**
Tissue selected	liver	liver
Sample for spiking	Groundnut cake	Groundnut cake
Tissue mass (g)	10	10
Groundnut cake mass (g)	10	10
OTA in groundnut cake (µg/kg)	45.2	45.2
Baseline OTA in tissue (µg/kg)	10.4	8.7
OTA measured after spiking (µg/kg)	49.8	49.3
Recovery (%)	89.9	91.5

Supplementary Table S3. Mycotoxin composition in the basal diet

Basal diet	**AFB1 (µg /kg)**	**OTA (µg /kg)**
Starter diet	> 80	13.4
Finisher diet	> 80	18.2