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## **List of abbreviations**

ACP	Acid phosphatase
ADP	Adenosine di phosphate
ALP	Alkaline phosphatase
ALT	Alanine amino transaminase
AO	American optics
AST	Aspartate amino transaminase
ATP	Adenosine tri phosphate
BOD	Biological oxygen demand
BPF	by-product feedstuffs
BWGR	Body weight gain ratio
CBR L	Cooked brown rice low amylose
CBRH	Cooked brown rice high amylose
CF	Crude fiber
COD	Chemical oxygen demand
CP	Crude protein
CPGBRL	Cooked pre-germinated brown rice low amylose
CWRH	Cooked white rice high amylose
CWRL	Cooked white rice low amylose
DE	Digestible energy
DFRB	Defatted rice bran
DM	Dry matter
DO	Dissolved oxygen
E	Eosinophilic material
E.S.Y.D	Egyptian starch, yeast and detergent company
EE	Ether extract
FAO	Food and Agriculture Organization
FAT	Fatty acid transporter
FER	Feed efficiency ratio
FI	Feed intake

GDP	Gross domestic product
GE	Gross energy
GFR	Glomerular filtration rate
GK	Glycerol kinase
GPO	Glycerol phosphate oxidase
H	Hepatic architecture
Hb	Hemoglobin
HDL	High density lipoprotein-cholesterol
IEP	Isoelectric point
LDL	Low density lipoprotein-cholesterol
LPL	lipoprotein lipase
MCH	Mean corpuscular hemoglobin
MCHC	Mean corpuscular hemoglobin concentration
MCV	Mean corpuscular volume
NDF	Neutral detergent fiber
NFE	Nitrogen free extract
NS	No significant
OM	Organic matter
PCV	Packed cell volume
PI	Portal inflammation
R B	Rice bread
RBC	Red blood cell
RBO	Rice bran oil
RP-A	Rice protein precipitation with acidic solution
RP-E	Rice protein precipitation with enzymes
RSMBP	Rice starch manufacture by-product
SGOT	Serum glutamic oxaloacetic transaminase
SS	Suspended solid
TBARS	Thiobarbituric acid–reactive substances
TDS	Total dissolved solids
TG	Triglycerides

TL	Total lipids
TP	Total protein
TS	Total solids
VLDL	Very-low-density lipoprotein
WBC	White blood cell
WG	Weight gain
WI	Water intake