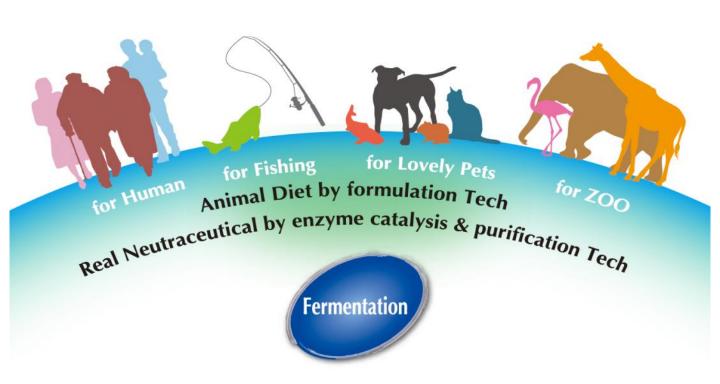
## Zoo Animal Diets Catalog

Based on our technical knowledge and expertise, we have created nutritional diets for zoo animals. We strive to meet the unique needs of our customers and to contribute to animals' health and wellbeing.

Our customer's smile gives us happiness, energy, and motivation.



RESEARCH SOLUTION DEPARTMENT BIOINDUSTRY DIVISION ORIENTAL YEAST CO., LTD. (2021)



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## **Corporate Introduction**

WHO is OYC (ORIENTAL YEAST CO., LTD.)?

ORIENTAL YEAST CO., LTD. is one of subsidiaries of Nisshin Seifun Group, which is the biggest flour milling company in Japan.

We celebrated 90th anniversary of its founding this year. We manufacture baker's yeast, food product, diet, biochemical and offer contract research services.



## OYC's Commitments to Zoo Animal Diets



We consider the following requirements while manufacturing diets:

- 1.Palatability
- 2. Regular ingredient analysis
- 3.Using raw materials which are used in lab animal diet production
- 4. Nutrition and diet form which can withstand transport
- 5.Minimum cost by many years' experience of selecting raw materials
- 6.Making moisture lower than a certain amount for enhancing storage stability

## **Corporate Introduction**

## Features of OYC Zoo Animal Diets

## Our goal is to satisfy the nutritional requirement with OYC zoo animal diets

### ·Well Selected Reliable Raw Materials

Some of the raw materials are also formulated in the lab animal diets (Certified diet for GLP study) which meet the strict contaminant standards

## Sophisticated Formulation Technology

Making the best use of experience & technology from lab animal diets

## Diet Production Technology

Producing at our own factory in Japan

## Quality Management

"ISO9001" certification, Ingredient analysis is conducted regularly

## Made in Japan!!

## Our Aspirations for Zoo Animal Diets

Zoo animals are our valuable partners who help us to nurture and comfort our hearts. OYC is committed to improving the health & nutrition of zoo animals as well as contributing to human happiness. OYC brings over 58 years of experience and expertise in the research, development, and manufacturing of high-quality zoo animal diets. Our products were born out of our aspiration, therefore, strive to meet the unique needs of our customers and to contribute to animals' health and wellbeing.

## **ZGF**



Size: About φ25mm

## **Product Features**

Though this pellet is larger than ZC and ZF, its composition is same with ZC and ZF.

The merits due to its size...

- Easy for animals and people to find.
- •Expect more mastication.
- ·Used as enrichment for small herbivore.
- ·Easy to make a hole for medicine administration

### ■ Animal (Example)

Elephant, Hippopotamus, Rhino, etc.

- Packing Weight and Diet Form 20kg Solid
- **Feeding Amount** 500g/BW100kg
- Product Number OYC 2107300
- Note

Please feed animals with appropriate amount of hay too

### Others

Types	Main Ingredients
Grain	Wheat flour, Corn
Chaff and bran	Bran, Barley bran
Vegetable oil-meal	Soybean oil-meal
Others	Alfalfa, Beet pulp, Vitamins, Minerals

Reference Nutrient Composition Amount			
Crude protein	(%)	16.5~21.0	
Crude fat	(%)	2.0~ 5.0	
Crude fiber	(%)	10.5~16.0	
Crude ash	(%)	8.5~11.0	



ZC,ZF

ZC

Size: About φ8mm

ZF



Size: About φ12mm

## **Product Features**

These diets have been fed to many herbivores. These are designed based on NRC and foreign literatures.

The compositions are same with ZGF.

■ Animal (Example)

Cattle, Giraffe Camel, Kangaroo, Horse, etc.

- Packing Weight and Diet Form 20kg Solid
- Feeding Amount
  Appropriate amount
- Product Number ZC:OYC 2103400 ZF:OYC2102600
- **Note**Please feed animals with appropriate amount of hay too
- Others

Types	Main Ingredients
Grain	Wheat flour, Corn
Chaff and bran	Bran, Barley bran
Vegetable oil-meal	Soybean oil-meal
Others	Alfalfa, Beet pulp, Vitamins, Minerals

Reference Nutrie	ent Com	position Amount
Crude protein	(%)	16.5~21.0
Crude fat	(%)	2.0~ 5.0
Crude fiber	(%)	10.5~16.0
Crude ash	(%)	8.5~11.0
•		•





# omposition

## **Mammals Diets**

## KS



Length : About  $\phi$ 21.10mm Thickness : About  $\phi$ 10.54mm

## **Product Features**

This diet has high palatability for bears and has been fed to bears over many years in Japan.

There is a possibility to contribute to breeding by providing nutrition of KS.

This is also fed to Boar or Beaver in Japan.

■ Animal (Example)

Bear, Raccoon, etc.

- Packing Weight and Diet Form
  - 10kg Expanded
- **■** Feeding Amount
  - 1.0~1.5kg/BW100kg
- **Product Number** OYC2107100
- **■** Others

Types	Main Ingredients
Grain	Wheat flour, Corn
Vegetable oil-meal	Soybean oil-meal
Animal derived	Skim milk, Fish meal
	Beet pulp, Cane molasses, Peanut meal, Vitamins, Minerals

Reference Nutrient Composition Amount		
Crude protein	(%)	18.0~22.0
Crude fat	(%)	6.0~12.0
Crude fiber	(%)	2.0~ 5.0
Crude ash	(%)	5.0~ 8.0
-		•



KS Round Expanded Pellet



Length: About φ21.10mm Thickness: About φ10.54mm

## **Product Features**

This diet has high palatability for bears and its composition is same with KS.

There is a possibility to increase quantity of behavior of bears because this round expanded pellet rolls.  $\rightarrow$  Enrichment

- Animal (Example) Bear, Raccoon, etc.
- Packing Weight and Diet Form 10kg Expanded
- Feeding Amount 1.0~1.5kg/BW100kg
- Product Number OYC2103500
- Others

Types	Main Ingredients
Grain	Wheat flour, Corn
Vegetable oil-meal	Soybean oil-meal
Animal derived	Skim milk, Fish meal
Others	Beet pulp, Cane molasses, Peanut meal, Vitamins, Minerals

Reference Nutrie	ent Com	position Amount
Crude protein	(%)	18.0~22.0
Crude fat	(%)	6.0~12.0
Crude fiber	(%)	2.0~ 5.0
Crude ash	(%)	5.0~ 8.0



## ZAS



Size: About 23×23×13mm

## **Product Features**

The diet form is "Expanded" for digestion and palatability. This diet is easy to eat due to the diet size.

It is designed to provide high level of vitamin C to meet the high requirements of monkeys.

### ■ Animal (Example)

Primates including Chimpanzee. Old World Monkey including guenon. etc.

- Packing Weight and Diet Form 10kg Expanded
- **Feeding Amount** 30~40g/BW1kg
- Product Number OYC2119000
- Note

Please feed animals with fruit or vegetables accordingly

### ■ Others

Types	Main Ingredients
Grain	Wheat flour, Corn
Vegetable oil-meal	Soybean oil-meal
Animal derived	Skim milk, Fish meal
	Peanut meal, Vitamins, Minerals

Reference Nutrient Composition Amount		
Crude protein	(%)	25.0~29.0
Crude fat	(%)	6.0~10.0
Crude fiber	(%)	2.0~ 4.5
Crude ash	(%)	5.5~ 8.5



## **SPS**



Size : About φ6×15mm

## **Product Features**

It is suitable for feeding New World Monkey due to the small size. This diet contains higher level of animal protein to compensate for meal worms and other animal-based food consumed by New World Monkey in the wild.

This diet is designed to provide rich vitamin C and D.

■ Animal (Example)

New World Monkey including sapajou etc.

- Packing Weight and Diet Form 10kg Expanded
- Feeding Amount 25~50g/BW1kg
- Product Number OYC2109600
- Note

Please feed animals with fruit or vegetables accordingly

Others

Types	Main Ingredients
Grain	Wheat flour, Corn
Chaff and bran	Rice flour
Animal derived	White Fish meal
Otle oue	Defatted soybean, Peanut
Others	meal, Vitamins, Minerals

Reference Nutrient Composition Amount			
Crude protein	(%)	21 or more	
Crude fat	(%)	7.0 or more	
Crude fiber	(%)	3.5 or less	
Crude ash	(%)	7.0 or less	



## ZN neo



Length : About  $8\sim9$ mm

Thickness: About 4~5mm

## **Product Features**

This high quality diet was developed based on nutrition study and breeding experience for many years.

We select reliable raw materials and reduce health damage caused by the diet.

This diet is considered to be able to feed to various cats due to raw materials formulated to ZN neo has high palatability.

- Animal (Example) Cat etc.
- Packing Weight and Diet Form 10kg Expanded
- Feeding Amount Appropriate amount
- Product Number OYC2131100
- Others

Types	Main Ingredients
Grain	Corn, Wheat flour
Chaff and bran	Corn gluten meal
Vegetable oil-meal	Soybean oil-meal
	Chicken meal, Fish meal,
Animal derived	Beef tallow
Others	Taurine, Vitamins, Minerals

Reference Nutrient Composition Amount			
Crude protein	(%)	47.5~52.0	
Crude fat	(%)	10.0~15.0	
Crude fiber	(%)	1.0~ 3.0	
Crude ash	(%)	8.0~13.0	



ZS



Size: About φ12mm

## **Product Features**

The calorie per pellet is low.

This diet can also be used in training, enrichment and so on. This can be fed to various animals including old age animals that have difficulty in mastication because it is soft in comparison with ZC or ZF.

■ Animal (Example)

Rhino, Camel, Horse, Kangaroo, Elephant, Hippopotamus etc.

- Packing Weight and Diet Form 10kg Expanded
- Feeding Amount
  Appropriate amount
- Product Number OYC2105000
- Note

Please use as enrichment

Others

5
'n
_

Reference Nutrient Composition Amount			
Crude protein	(%)	10.0~14.0	
Crude fat	(%)	3.0~ 5.5	
Crude fiber	(%)	5.0~ 8.5	
Crude ash	(%)	3.0~ 5.0	



## **ZFU**



Size: About 25×250mm stick

## **Product Features**

It is easy for visitors to feed this diet to animals due to its stick type which is not sticky and also easy for animals and people to find.

About 18kcal / stick.

This diet can be also used in training.

■ Animal (Example)

Rhino, Camel, Horse, Kangaroo, Elephant, Hippopotamus etc.

- Packing Weight and Diet Form 5kg Stick
- Feeding Amount
  Appropriate amount
- Product Number ARAI2104600
- Note

Please use as enrichment

Others

Types	Main Ingredients
Grain	Wheat gluten

Reference Nutrient Composition Amount (Analysis Value)		
Crude protein	(%)	27.5
Crude fat	(%)	1.0
Crude fiber	(%)	0.01
Crude ash	(%)	0.8
NFE		59.5

## Package Image



## Carnivore Supplement



\* Product image for illustration purposes only. Actual packing varies.

## **Product Features**

This supplement is developed to prevent animals from All-meat syndrome.

This supplement supplies Carnivore with vitamins and minerals. We recommend this supplement for zoos that can't feed organs or live animals.

As it is difficult for Carnivore to ingest mash only, we suggest to feed to animals by spreading this supplement over meats like horsemeat or beef.

- Animal (Example)
  - Feline, Canine etc.
- Packing Weight and Diet Form 10kg Mash
- **■** Feeding Amount Appropriate amount
- Others

Reference Nutrient Composition Amount (Calculated Value)		
Crude protein	(%)	34.9
Crude fat	(%)	2.5
Crude fiber	(%)	0.9
Crude ash	(%)	11.0
NFE		42.7

## FS



Size: About φ8mm

## **Product Features**

It is easy for flamingos to eat because this diet can float on water. This diet leads to get closer to Flamingo's wings original color and makes them ingest appropriate nutrition.

Though it is possible to only feed this diet during the mating season, you can also enhance animal protein by giving krill to birds.

■ Animal (Example)

Phoenicopteridae, Threskiornithidae etc.

- Packing Weight and Diet Form 10kg Expanded
- **Feeding Amount** 300g/day(a bird)
- Product Number OYC2107001
- Note

Please float on water

■ Others

Types	Main Ingredients	
Grain	Wheat flour, Corn	
Vegetable		
oil-meal	Soybean oil-meal	
Animal derived	Skim milk, Fish meal	
Others	Canthaxanthin,	
	Vitamins, Minerals	

Reference Nutrient Composition Amount			
Crude protein	(%)	19.5~23.5	
Crude fat	(%)	4.5~ 7.5	
Crude fiber	(%)	2.0~ 5.0	
Crude ash	(%)	5.0~ 8.0	



## MS



Size: About φ10mm

## **Product Features**

This diet includes high level of crude protein.

It is suitable for birds that have difficulty in ingesting due to its water absorbency.

This diet has been fed to Birds like Waterfowl or Ratite and Herbivore so far.

■ Animal (Example)

All Birds

- Packing Weight and Diet Form 10kg Expanded
- Feeding Amount
  Appropriate amount
- Product Number OYC2107200
- Note

Please feed animals with hay and water accordingly

Others

Types	Main Ingredients
Grain	Wheat flour, Corn
Vegetable	
oil-meal	Soybean oil-meal
Animal derived	Fish meal
II ITDATC	Alfalfa, Vitamins,
	Minerals

Reference Nutrient Composition Amount			
Crude protein	(%)	21.5~25.0	
Crude fat	(%)	4.0~ 7.0	
Crude fiber	(%)	2.0~ 5.0	
Crude ash	(%)	4.0~ 7.0	



# DACHO (Ostrich)



Size: About φ9.5mm

## **Product Features**

This diet includes higher level of crude fiber compared to other Birds diets.

Growth promoting, bone formation or eggshell formation can be expected because this diet includes higher level of vitamin D<sub>3</sub> and minerals like calcium than MS.

You can use it for both breeding and maintenance.

- Animal (Example)
  Birds(Including Ratite)
- Packing Weight and Diet Form 10kg Expanded
- Feeding Amount Appropriate amount
- Product Number OYC2123000
- Others

Types	Main Ingredients				
Grain	Wheat flour, Corn				
	Bran, Defatted				
Chaff and bran	soybean cake				
Vegetable					
oil-meal	Soybean oil-meal				
Animal derived	Fish meal				
Othora	Alfalfa, Vitamins,				
Others	Minerals				
L	1				

Reference Nutrient Composition Amount								
Crude protein	(%)	21.5~25.5						
Crude fat	(%)	4.0~ 7.0						
Crude fiber	(%)	3.5~ 6.5						
Crude ash	(%)	11.0~14.0						



## **TSURU**

(Crane)



Size: About φ4.5mm

## **Product Features**

This diet is developed for breeding Gruidae and provides appropriate nutrition in good balance.

You can use this diet for breeding by feeding it to Birds

You can use this diet for breeding by feeding it to Birds together with other animal protein.

- Animal (Example) Gruidae
- Packing Weight and Diet Form 20kg Expanded
- Feeding Amount 150~200g/day(a bird)
- **Product Number** OYC2104700
- Others

Types	Main Ingredients
Grain	Wheat flour, Corn
Chaff and bran	White rice bran, Defatted soybean cake, Bran
Animal derived	Fish meal, Skim milk
Others	Vitamins, Minerals

Reference Nutrient Composition Amount							
Crude protein	(%)	16.5~20.0					
Crude fat	(%)	2.0~ 5.5					
Crude fiber	(%)	1.5~ 4.0					
Crude ash	(%)	4.5~ 7.5					



## **ZPC**



Size: About φ3.2mm

## **Product Features**

It is easy for small birds like Phasianidae to ingest due to the diet size.

It is expected to spill less diets compared to mash type.

### ■ Animal (Example)

Phasianidae

- Packing Weight and Diet Form 20kg Solid
- Feeding Amount 150g/day(a bird)
- Product Number OYC2108000
- Note

Please also feed animals with greens

### Others

Types	Main Ingredients
Grain	Wheat flour, Corn
Vegetable	
oil-meal	Soybean oil-meal
Animal derived	Fish meal
Othora	Alfalfa, Vitamins,
Others	Minerals

Reference Nutrient Composition Amount							
Crude protein	(%)	18.0~22.0					
Crude fat	(%)	2.5~ 6.0					
Crude fiber	(%)	2.0~ 5.0					
Crude ash	(%)	17.0~10.0					



# TOKI



Size : About φ6×15mm

## **Product Features**

This diet is developed with zoos' cooperation to maintain and breed Threskiornithidae.

This diet has contributed to revival of Ibis in Japan.

### ■ Animal (Example)

Threskiomithidae, Ciconiidae, Pelicanidae

- Packing Weight and Diet Form 10kg Expanded and 10kg Mash
- Feeding Amount 7~8% of body weight
- **Product Number** OYC2121000
- Note

Please feed animals with loaches accordingly

### ■ Others

Types	Main Ingredients
Grain	Wheat flour, Corn
	Defatted soybean cake,
Chaff and bran	White rice bran
Animal derived	Fish meal, Skim milk
Others	Vitamins, Minerals

Reference Nutrient Composition Amount						
Crude protein	(%)	31.0~36.0				
Crude fat	(%)	11.0~16.0				
Crude fiber	(%)	1.0~ 3.0				
Crude ash	(%)	5.0~ 8.5				

## ■ Package Design



\* Mash type is make-to-order and the composition is different from "Ibis".

It can be fed to birds for maintenance or breeding by mixing horsemeat and so on.

# Nutrient Composition

## **Mammals Diets Nutrient Composition**

					Man	nmals			
		Herbivore	Herbivore	Herbivore	Bears	Monkeys	Monkeys	Cats	All anima
		ZGF	ZF	ZC	KS	ZAS	SPS	ZN neo	ZS
Moisture	g	8.9±0.6	8.6±0.5	8.6±0.5	7.2±0.8	7.6±0.9	8.0±0.8	7.9±0.8	8.3±0.
Crude Protein Crude fat Crude Ash		18.7±0.6	17.9±0.7	17.9±0.6	19.6±0.3	27.3±0.5	23.5±0.4	48.6±1.8	12.3±0.
Protein	g								
Crude fat	g	2.8±0.2	2.9±0.2	2.9±0.3	9.2±1.0	8.5±0.5	9.7±0.6	13.9±0.9	4.6±0.
	g	9.6±0.3	9.8±0.4	9.7±0.2	5.6±0.1	7.1±0.3	5.8±0.1	9.8±0.6	3.6±0.
Crude fiber	g	12.7±0.6	12.0±0.8	12.4±0.5	3.3±0.3	2.7±0.3	2.1±0.2	1.3±0.1	6.9±0.
NFE	g	47.2±1.2	48.6±0.8	48.8±0.9	55.0±1.0	46.6±1.1	51.0±0.8	18.6±0.9	64.6±0.
Calories	kca I	289.2±3.8	291.7±2.2	291.5±3.0	381.5±6.2	372.0±4.1	384.7±4.8	393.9±5.1	348.3±4.
TDN	g	62.2	62.5	62.5	69.4	-	-	-	77.2
DCP	g	14.4	13.4	13.4	14.2	-	-	-	9.6
DCP Calculation criteria		Cattle	Cattle	Cattle	Pig	-	-	-	Cattle
Ca	g	1.6	1.6	1.6	1.2	1.5	1.2±0.7	3.3	-
P	g q	1.1	1.2	1.2	0.8	1.1	0.8±0.4 0.2±0.1	1.9	-
Mg Na	q	0.3 0.2	0.3	0.3	0.2	0.2	0.2±0.1	0.1	-
Na K Fe	g	0.8	0.9	0.9	0.9	0.9	0.9±0.5	0.5	-
Fe	mg	29.2	28.0	28.0	29.4	24.0	13.6±8.0	29.2	-
	mg	1.0	0.9	0.9	1.3	1.1	1.1±0.7	1.9	-
	mg	4.6	5.1	5.1	5.9	5.6	5.1±2.9	8.7	-
	mg	6.0	7.1	7.1	5.4	5.0	0.5±2.6 3700. , 2157.	1.6	-
V.A	IU	362.5	326.9	326.9	867.5	1067.4	3700. ±2157. 0 ±2	1000.0	-
V.D	IU	42.0	42.0	42.0	169.5	205.5	1685. 0±973.0	200.0	-
	mg	9.1	6.1	6.1	10.5	12.6	34.2±19.7	4.3	-
V.K3 V.B1	mg mg	0.0 1.2	0.0 1.4	0.0 1.4	0.1 2.7	3.2	-±- 2.7±1.5	0.0	-
	mg	1.0	1.0	1.0	1.9	2.3	2.1±1.2	0.5	-
V.B6	mg	0.9	0.9	0.9	1.2	1.3	0.7±0.4	0.6	-
	mg	10.3	12.3	12.3	10.7	9.7	7.7±4.5	8.1	-
Pantothenic	mg	3.0	3.1	3.1	3.9	4.0	3.1±1.8	8.1	-
acid Choline	mg	169.1	164.3	164.3	279.4	329.1	266.7±25.2	330.0	-
	mg	0.2	0.2	0.2	0.1	0.1	0.2±0.1	0.1	-
V.C	mg	4.1	3.4	3.4	16.9	146.5	190.5±110.7	0.0	-
Ile	g	0.8	0.7	0.7	0.9	1.2	1.0±0.6	1.9	-
Leu	g	1.4	1.4	1.4	1.9	2.3	1.9±1.1	5.5	-
Lys	g	0.9	0.9	0.9	1.2	1.7	1.0±0.6	2.2	-
Met	g	0.3	0.3	0.3	0.4	0.6	0.7±0.4	1.1	-
Cys	g	0.4	0.3	0.3	4.0	0.5	0.3±0.2	0.8	-
Phe	g	1.0	0.9	0.9	1.1	1.4	1.1±0.6	2.5	-
Tyr Thr Trp Val	g	0.6 0.7	0.5	0.5	0.5	0.9	0.8±0.5	1.8	-
Thr Trp	g g	0.7	0.7	0.7	0.8	0.4	0.9±0.5 0.3±0.2	2.2 0.4	-
Val	g	1.0	0.3	0.9		1.4	1.1±0.6	2.3	<del>-</del>
Vai Uic				0.9	1.1		0.7±0.4		<del>-</del>
His	g g	0.5 1.2	0.5 1.1	1.1	0.6 1.7	0.8 2.0	1.4±0.8	1.1 2.7	<del>-</del>
· Δra		0.9	0.9	0.9	1.7	1.4	1.4±0.8 1.1±0.6	3.7	-
Arg	g	1.7	1.7	1.7	2.2	2.6	2.2±1.3	3.7	<del>-</del>
Ala	~		1 1./					8.4	-
Ala Asp	g		3 1	3 1	1 4 0				
Ala Asp Glu	g	3.1	3.1	3.1	4.0	4.9	4.2±2.5		
Ala Asp			3.1 0.9 1.1	3.1 0.9 1.1	1.2 1.3	1.5 1.6	1.0±0.6 1.4±0.8	3.4 3.9	-

Others, Minerals, Vitamins and Amino acids were calculated from a ratio of combination of raw materials \*SPS:4-year average ± SD (April-2014 March-2018)

Per 100g diet

<sup>\*</sup>ZN neo:1-year average ± SD (April-2017 March-2018)

# **Birds Diets Nutrient Composition**

hers Nutrient compositio	loisture irude Protein irude fat irude Ash irude fiber IFE alories	g g g g	Phoenicopteri dae FS 8.3±0.5 21.5±0.5 5.5±0.3 6.4±0.1	Birds MS 8.5±0.5 23.3±0.4	Ratite  DACHO  7.6±0.6	rds Gruidae TSURU	Phasianidae ZPC	Threskiornithi dae TOKI
hers Nutrient compositio	rude Protein rude fat rude Ash rude fiber	g g g	dae FS 8.3±0.5 21.5±0.5 5.5±0.3	MS 8.5±0.5	DACHO			dae
hers Nutrient compositio	rude Protein rude fat rude Ash rude fiber	g g g	8.3±0.5 21.5±0.5 5.5±0.3	8.5±0.5		TSURU	7PC	TOKI
hers Nutrient compositio	rude Protein rude fat rude Ash rude fiber	g g g	21.5±0.5 5.5±0.3		7.6±0.6			TOKI
hers Nutrient	rude fat rude Ash rude fiber	g g	5.5±0.3	23.3±0.4		8.3±0.5	8.1±0.4	7.7±0.7
hers Nutrient	rude Ash rude fiber IFE	g g			23.2±0.3	18.3±0.4	19.5±0.3	33.9±0.6
hers Nutrient	rude fiber FE	g g	6.440.1	$5.0 \pm 0.2$	5.3±0.3	3.7±0.3	3.5±0.2	14.2±1.3
hers Nutrient	IFE	g	0.4±U.1	5.0±0.1	12.5±0.3	6.0±0.1	8.3±0.3	7.0±0.4
hers D	IFE		2.9±0.3	3.4±0.4	5.0±0.5	2.4±0.2	3.0±0.3	1.6±0.2
hers D			55.4±0.7	54.7±0.4	46.4±0.5	61.5±0.9	57.6±0.8	35.7±1.3
hers D	aiories		357.5±2.1	357.7±2.6	325.8±3.6	352.3±2.2	340.5±1.7	406.0±7.6
hers	DN		72.6	72.9	63.3	69.5	68.1	63.5
뿐만		g				<del> </del>		
ヒト		g	17.6	20.4	19.8	14.5	15.4	16.0
cr	alculation riteria		Chicken	Chicken	Chicken	Chicken	Chicken	Chicken
Ci P		g	1.4	0.8	4.1	1.0	2.6	1.9
·	lg	g g	0.8 0.2	1.0 0.3	1.1 0.2	0.9 0.2	0.6 0.2	1.2 0.2
als M	-	g	0.3	0.1	0.2	0.5	0.2	0.2
Minerals		g	0.8	0.8	0.8	0.7	0.6	0.8
<u></u> F∈	e	mg	18.0	21.4	23.9	16.2	18.8	65.2
Cı	u	mg	1.0	0.8	0.8	1.0	0.9	4.1
Zı		mg	5.4	5.0	5.0	5.5	5.4	36.7
M		mg	4.8	4.7	4.5	7.3	4.9	23.4
	.A .D	IU IU	1714.8 336.5	489.9 83.9	1563.9 294.1	1717.7 337.5	1931.7 378.5	3798.7 699.5
	.Б '.Е	mg	20.0	7.6	7.5	19.8	22.2	211.4
		mg	0.3	0.1	0.1	0.3	0.3	0.1
1/	.B1	mg	5.1	1.7	1.7	5.3	5.2	5.1
≝⊻	.B2	mg	3.6	1.1	1.2	3.7	3.8	4.0
		mg	1.6	1.3	1.1	1.8	1.6	1.0
	liacin antothenic	mg	9.7	9.6	9.5	14.0	9.1	8.6
ac	cid	mg	5.7	2.7	2.7	6.1	5.7	2.9
	holine	mg	407.4	237.5	238.2	391.1	421.8	262.2
		mg	0.2	0.1	0.1	0.3	0.2	0.1
Ile	.C	mg g	33.6 0.9	8.4 1.0	8.4 1.0	33.8 0.8	37.9 0.8	8.2 1.6
	eu	q	2.0	2.2	2.1	1.8	1.9	3.3
	ys	g	1.3	1.5	1.5	1.1	1.1	2.3
	let	g	0.5	0.5	0.5	0.5	0.5	0.9
C	ys	g	0.4	0.4	0.4	0.3	0.4	0.5
	he	g	1.1	1.2	1.2	0.9	1.0	1.8
유받	yr	g	0.7	0.8	0.8	0.7	0.6	1.3
끢혋	nr	g	0.9	1.0 0.3	1.0 0.3	0.8	0.8	1.6 0.4
2 1	al	g g	1.1	1.3	1.2	1.0	1.0	1.9
Amino acids	lis	g	0.6	0.7	0.7	0.5	0.6	1.0
<sup>▼</sup> A	rg	g	1.4	1.6	1.6	1.2	1.2	2.2
	la	g	1.1	1.5	1.4	0.9	1.2	1.9
	sp	g	1.9	2.3	2.3	1.2	1.8	3.0
	ilu	g	4.1	4.4	4.0	2.7	3.8	5.6
	ily	g	1.0 1.5	1.4 1.6	1.4 1.4	0.9 1.1	1.0 1.4	1.7 2.2
	ro er	g g	1.1	1.2	1.4	0.9	1.4	1.7

Nutrient composition : 4-year average  $\pm$  SD (April-2014 March-2018)

Per 100g diet

# New Product Under Development

OYC continues to challenge on developing new products of animal diets. Here is a new product under development that we'd like to introduce to you.

## Gluten free Diet





## **Product Features**

It is considered that there is a possibility that gluten contained in diets could be one of the factors which cause diarrhea in marmosets. Therefore we are developing a new diet which is gluten free for New World Monkey such as marmosets.

### ■ Animal (Example) New World Monkey

### **■** Nutrient composition

		Gel type	Pellet type
Moisture	%	10.0	10.0
Crude protein	%	20.0	22.5
Crude fat	%	6.9	7.1
Crude ash	%	4.7	5.0
Crude fiber	%	10.9	2.9
NFE	%	47.4	52.5
Calories	Kcal/100g	331.9	364.0

Results which were calculated from a ratio of combination of raw materials

### Attention

As this diet is still under development, it will be brought to the market in the near future.



### RESEARCH SOLUTION DEPARTMENT BIOINDUSTRY DIVISION

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The details about OYC diets will be available from the above office.

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