



# PerYCR

Yeast Culture for Ruminants

**HUNAN PERFLY BIOTECH CO., LTD.**

Address: No.1038 Zhongqing Road, Jinxia Economic Development

Zone, Kaifu District, Changsha, Hunan, P. R. China

Tel: +86-731-84699028/84699058/84699158

Fax: +86-731-84699030

Web: <http://www.perfly-bio.com>

V 1.0

# PerYC

## Yeast Culture

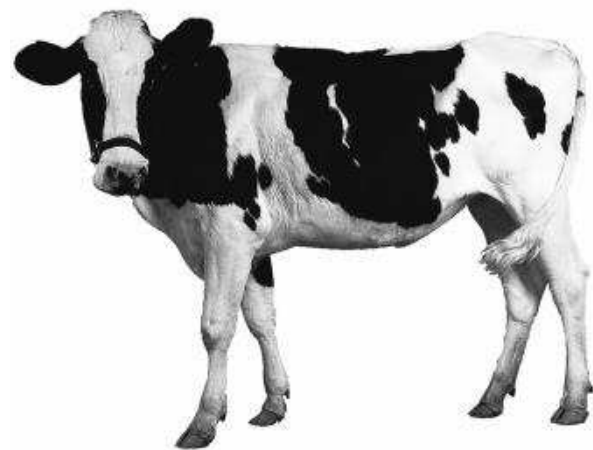


PerYC is the yeast culture (YC) produced by the use of *saccharomyces cerevisiae* with high performance to go through the series of specialized solid-state ferment process on the specifically culture medium.

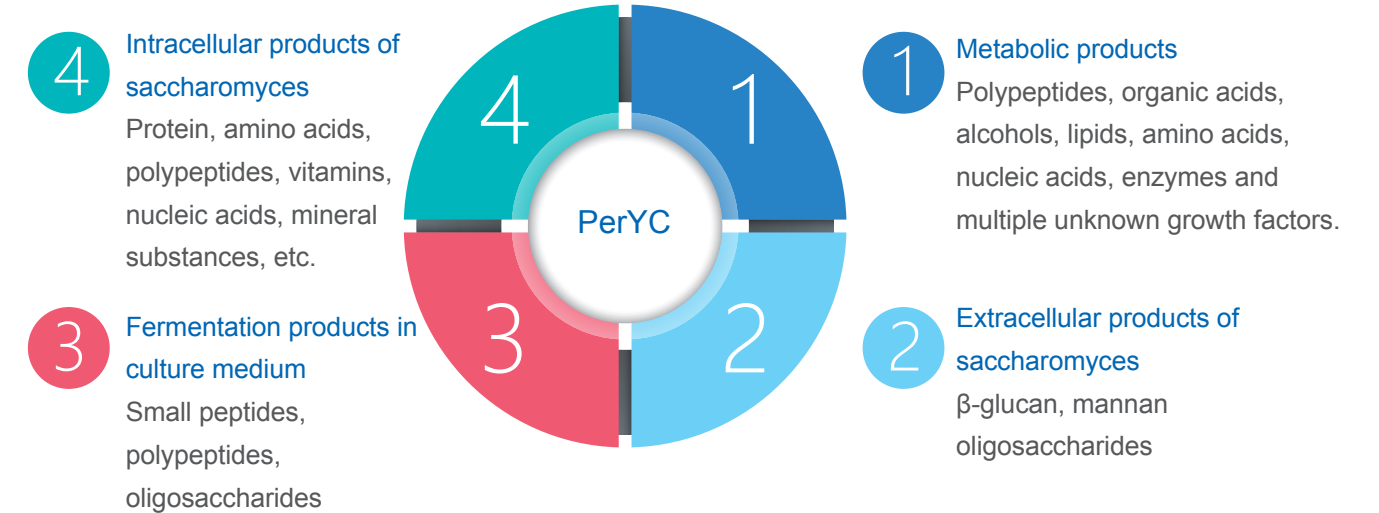
Improve  
3.0% of feed intake

5.0% of milk yield

10.0% of daily gain



### 1. Composition:



### 2. Guaranteed Analysis:

|          | Crude protein(%) $\geq$ | Crude fiber(%) $\leq$ | Crude fat(%) $\geq$ | Crude ash(%) $\leq$ | Mannan oligosaccharides(%) $\geq$ | Moisture(%) $\leq$ |
|----------|-------------------------|-----------------------|---------------------|---------------------|-----------------------------------|--------------------|
| PerYC I  | 20.0                    | 16.0                  | 3.0                 | 10.0                | 1.0                               | 12.0               |
| PerYC II | 16.0                    | 18.0                  | 3.0                 | 12.0                | 0.5                               | 12.0               |

### 3. Species:

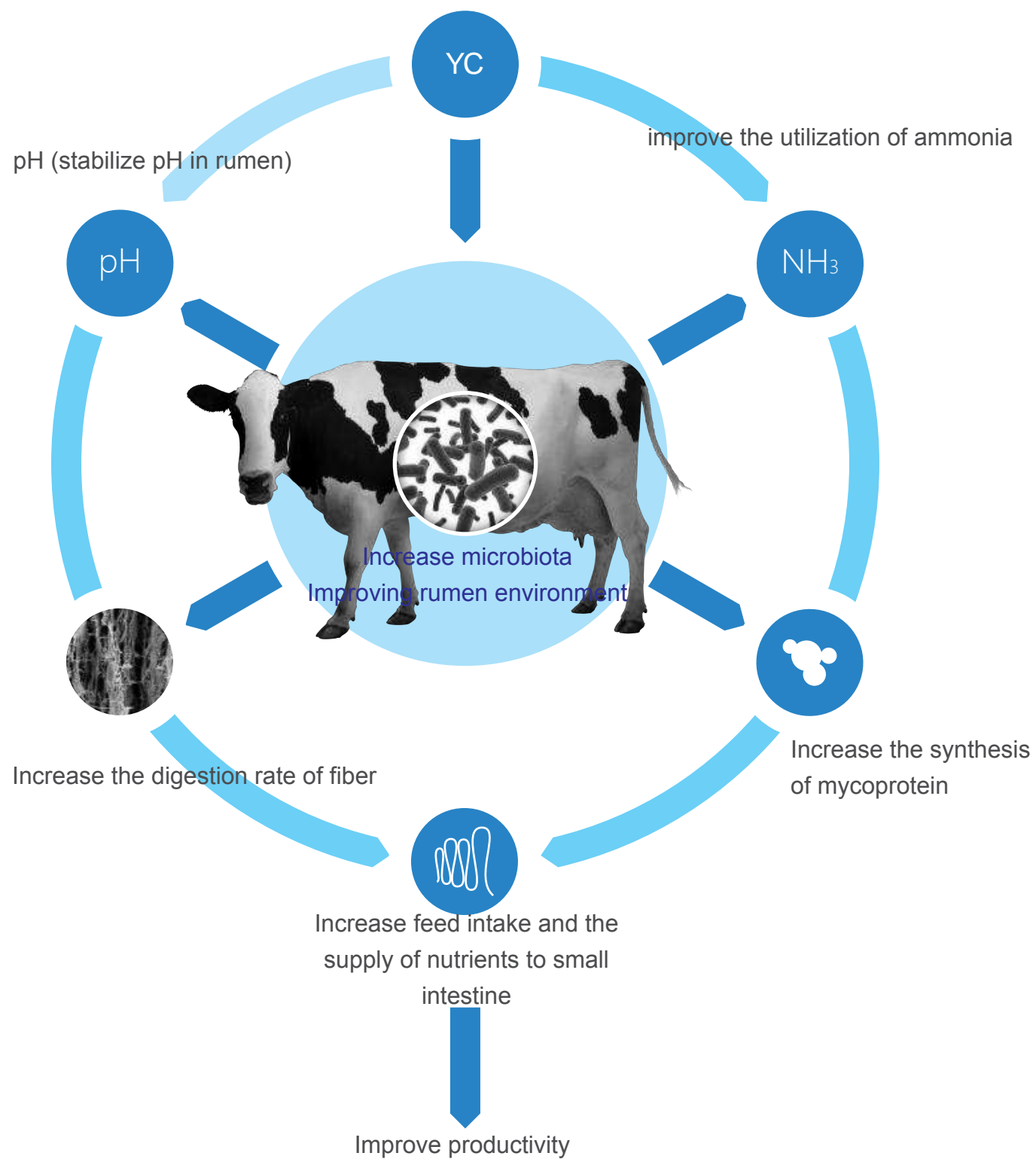
Cows, beef cattle, sheep and other ruminants

### 4. Action Mechanism:

Yeast culture regulates the condition of rumen micro-organism by stimulating the propagation of beneficial bacteria to improve dairy cows' physical condition, and to improve milking performance, making milking performance more stable.

1.YC cultures rumen micro-organism and regulates the condition of rumen micro-organism to stabilize rumen pH and to increase the digestion rate of fiber and feed intake.

2.YC cultures rumen micro-organism to improve utilization of ammonia and to promote the synthesis of mycoprotein and the digestion and the absorption of nutrients.



## 5. Characteristics:

### 1.Improving feed intake and milk production

This product can improve the digestion of cellulose and increase the synthesis of mycoprotein by stimulating the propagation of lactate-utilizing bacteria and cellulose-decomposing bacteria to improve cows' digestion system and digestion rate and to reduce Feed particles in feces, which promotes the health of cows and improve more than 5% of milk production and more than 3% of feed intake.

### 2.Improving the function of rumen

PerYC can regulate the balance of micro-organism by maintaining the anaerobic environment of rumen and stimulating the propagation of beneficial bacteria to improve the production of volatile fatty acids (VFAs) and to reduce the accumulation of lactic acids, which stabilizes pH in rumen.

### 3.Improving immunity

$\beta$ -glucan can degrade the hazardous substances in feed by absorbing, phagocytosing and damaging the toxins and virus that are immersed in the body.  $\beta$ -glucan can prevent from mastitis and improve milk quality and reproductive performance by absorbing toxins in plasma and reducing somatic number. Meanwhile, confronted with the disease caused by bacteria and virus and the stress caused by environment factors, mannan oligosaccharides and  $\beta$ -glucan can improve the nonspecific immunity.

### 6.Trial Effect:

PerYC can significantly improve rumen microbiota of cows by increasing the number of bacteria and cellulose-decomposing bacteria. (figure.1) PerYC can improve the feed efficiency by improving the conversion efficiency of protein and neural detergent fiber (NDF) significantly (figure 2.) Figure 2 shows that the conversion efficiency of protein can increase by 9.71%, and that of neural detergent fiber can increase by 25.17%(Data from: Animal Husbandry Branch Institute of Jilin Agricultural Science Academy, 2017.10)

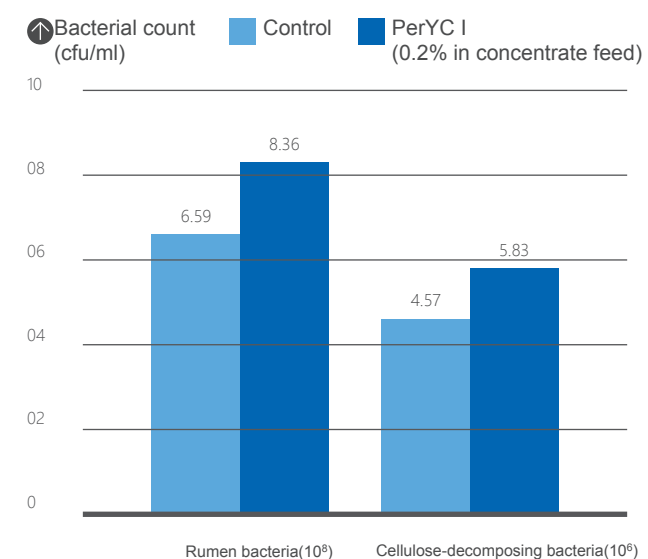


Figure1. The Effect of PerYC on Rumen Micro-organism

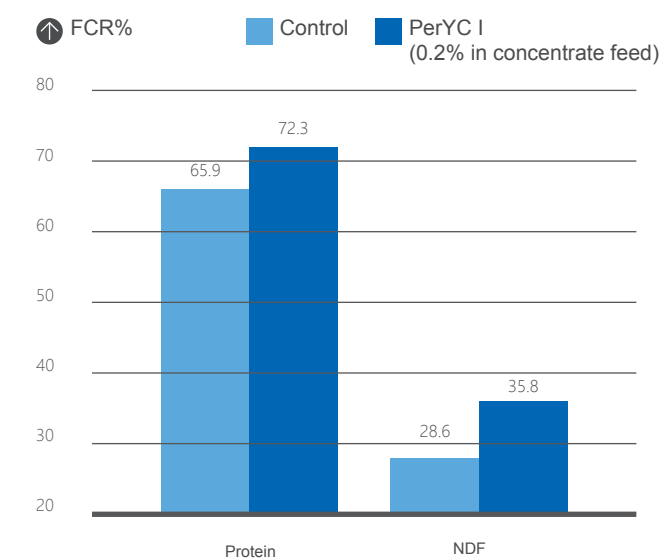


Figure 2. The Effect of PerYC on Feed Conversion Rate

PerYC added in feed can improve rumen microbial environment of ruminants, animals' health, animals' immunity, milk yield of whole period (figure 3.) and milk quality (figure 4) and prolong lactation length  
(Data from: dairy cow base of Jilin Agricultural Science Academy, 2017. 9).

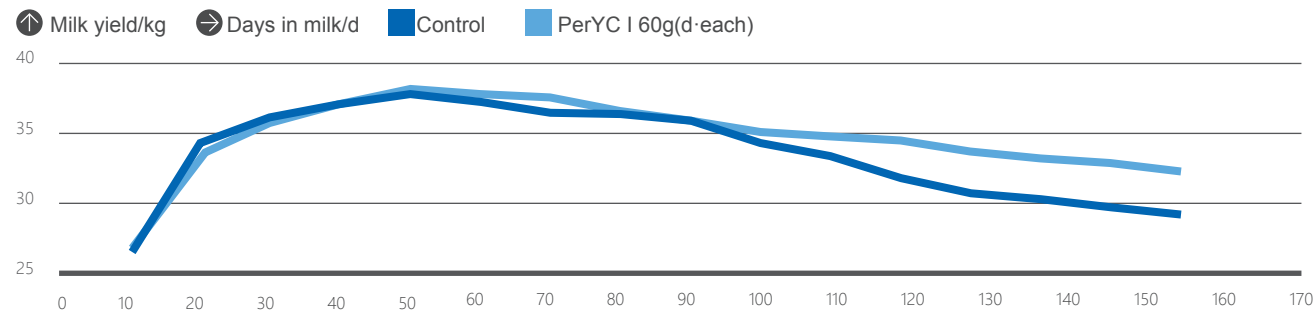


Figure 3. The Effect of PerYC on Milk Yield of Cows

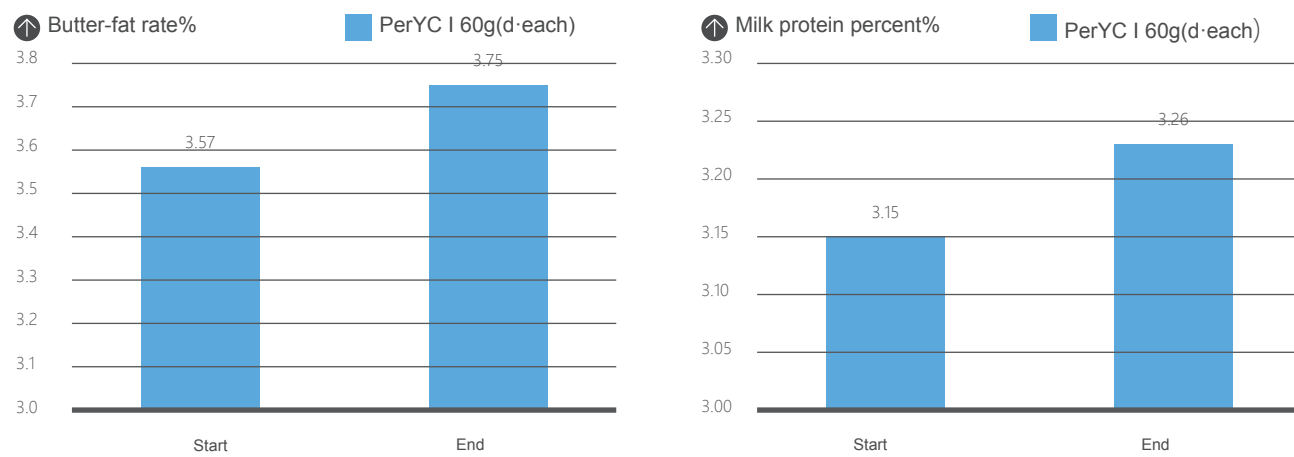


Figure 4. The Effect of PerYC on Milk Quality

PerYC can significantly improve the daily gain and dressing percentage of beef cattle, compared with control group, daily gain increase by 25%, dressing percentage increase by 3.4%

(Data from: beef cattle base of China Agricultural University, 2017. 3)

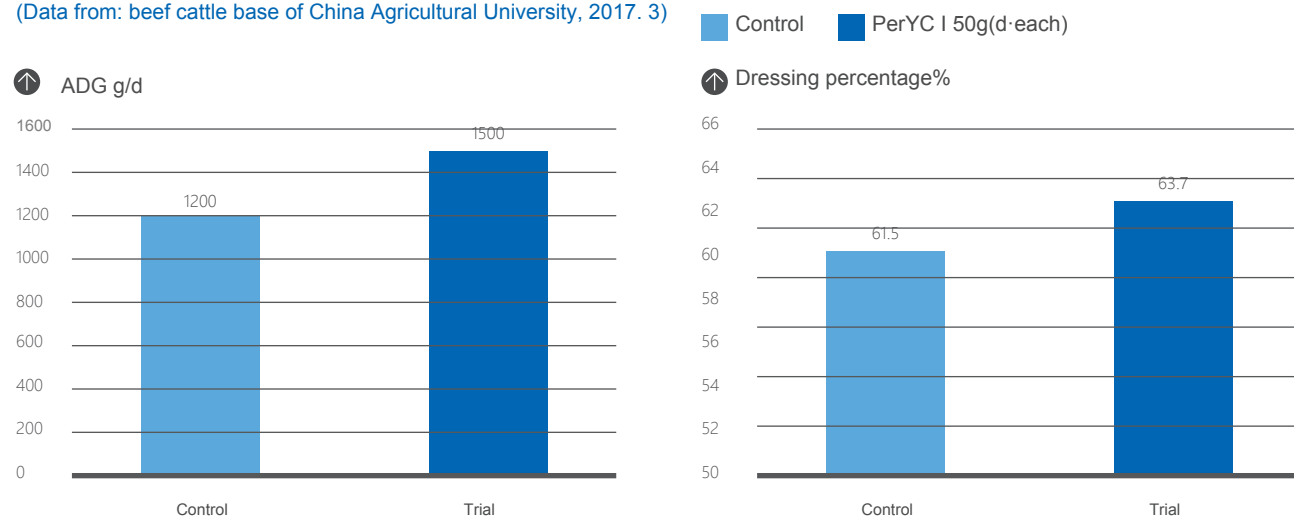


Figure 5. The Effect of PerYC on Production Performance of Beef Cattle

PerYC can improve the production performance and daily gain of mutton sheep and reduce feed gain ratio significantly. Compared with control group, PerYC added in feed can make average daily gain increase by 10.7%, and feed gain ratio reduce by 5.1%. (Data from: mutton sheep base of South storefront, tang county, Baoding, Hebei, 2016.4)

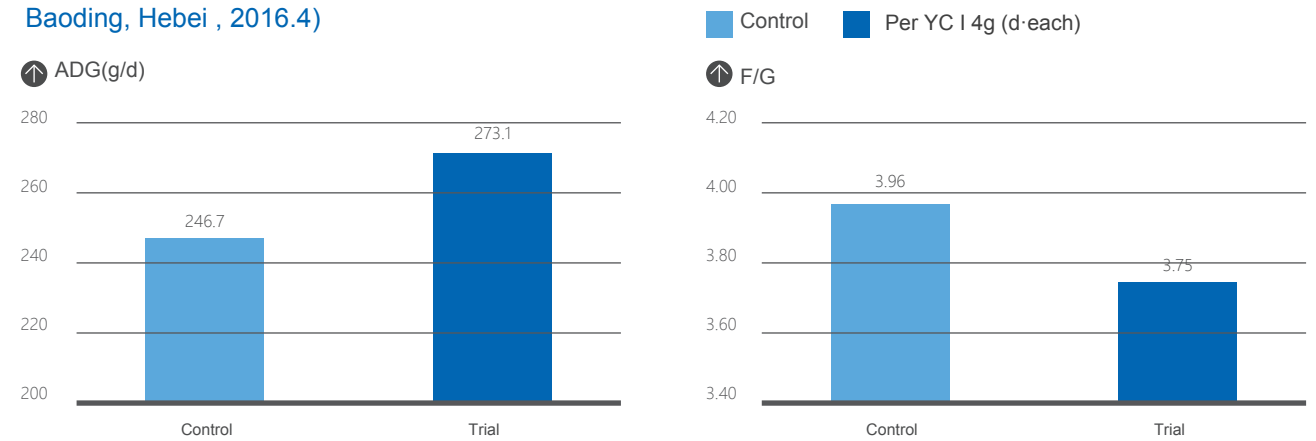


Figure 6. The Effect of PerYC on Production Performance of Mutton Sheep

## 7. Usage & Dosage

### 1. Dosage

|          | Cow               | Beef cattle       | Mutton sheep    | Horse             |
|----------|-------------------|-------------------|-----------------|-------------------|
| PerYC I  | 50~100 g/(each·d) | 30~80 g/(each·d)  | 3~5 g/(each·d)  | 30~ 80 g/(each·d) |
| PerYC II | 80~150 g/(each·d) | 50~120 g/(each·d) | 5~10 g/(each·d) | 50~120 g/(each·d) |

### Note:

- 1.This product is used as soon as possible after unpacking, the remaining parts need to tie up.
- 2.Keep away from heat, moisture and direct sunlight, not with toxic and harmful substances mixed.

### Packaging & Storage:

This product is packaged in a bag or barrel, the net weight of product is 25kg, and details see the package label.

### Shelf life

Under the condition of original package, the shelf life is 12 months.