

PIXAFIL® AMARILLO POLVO 20 – Technical specifications data sheet

Premix of additives (Colourants 2a) for poultry

1. GENERAL DESCRIPTION

Pixafil® Amarillo Polvo 20 is a natural saponified and stabilized extract produced from Marigold flower petals (*Tagetes erecta*), in powder form. Pixafil® Amarillo Polvo 20 is used as a natural pigment supplement in poultry feeds in order to obtain a golden-yellow color in broiler skin, and a deep orange-yellow color in egg yolks.

2. INGREDIENTS

Saponified extract from Marigold flowers and Marigold meal bagasse as an inert carrier to give a concentration of 20 grams of xanthophylls per kilogram.

Marigold flower may also be known by other names:

Spanish: Flor de Marigold, tagete, clavel de las Indias; English: Aztec Marigold.

3. PHYSICO-CHEMICAL PROPERTIES

Pixafil® Amarillo Polvo 20 is a free flowing powder.

Form:	Dark brown powder
Odor:	Characteristic Marigold flower scent
Main components:	Lutein (E-161 b). Category: 2 – Functional group: a. CAS No.: 127-40-2, EINECS No.: 208-840-0. Zeaxanthin (E-161 h). Category: 2 – Functional group: a. CAS No.: 144-68-3, EINECS No.: 205-636-4.
Solubility:	Soluble in organic solvents such as hexane, toluene, acetone, etc.
Loss on drying:	15,0 % maximum
pH:	3,2 to 5,0
Particle size:	10% maximum retention on mesh 20 ASTM

Chemical analysis:

Total xanthophylls:	20,0 g/Kg minimum (Method AOAC 970.64 – 1990)
Free xanthophylls:	95,0 % minimum

Xanthophylls proportion (HPLC):

Lutein (E – 161 b):	16,0 g/Kg minimum (Internal method)
Zeaxanthin (E – 161 h):	0,9 g/Kg minimum (Internal method)

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Proximate bromatological analysis:

Raw fiber:	8 – 12 %
Moisture:	13 – 15 % (Gravimetric method NOM-116-SSA1-1994)
Crude protein:	8 – 10 % (Volumetric method NMX-F-608-Normex2002)
Crude fat:	20 – 22 % (Gravimetric method NOM-086-SSA1-1994)
Ashes:	8 – 10 % (Volumetric method NMX-F-607-Normex2002)
Nitrogen free extract:	30 – 35 %

4. RECOMMENDATIONS AND USES

Pixafil® Amarillo Polvo 20 can be used as sole source of xanthophylls or in combination with other natural or synthetic xanthophylls. The inclusion of Pixafil® Amarillo Polvo 20 may vary according to the standards established by the user.

Recommended dosage:

The recommended dosage varies between 100 and 2000 grams per tonne of feed depending on xanthophylls concentration in the feed ration and on the required color. Consult our Technical Department or your nutritionist.

Authorised dosage:

Maximum content of 80,0 grams of xanthophylls per 1000 Kg of feed, that is, 4,00 Kg of Pixafil® Amarillo Polvo 20.

5. STORAGE AND TRANSPORT

Standard packaging: 20 Kg of product in high density polyethylene bag inside a kraft paper bag.
Storage: Keep in dry place, protected from light, air and high temperatures.

6. STABILITY

If the product is kept sealed in its original packaging in a dry place between 10 °C and 25 °C, the expiration date is at least 18 months after the date of manufacture.

7. INFORMATION ON SAFETY AND TOXICOLOGY

Pixafil® Amarillo Polvo 20 is an innocuous and non-toxic product, 100% natural. Without regulation regarding feed withdrawal periods and regarding feed use for broilers and laying hens.

For further information please refer to the Material Safety Data Sheet.

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8. PRODUCT FREE FROM DIOXINS

The manufacturer certifies: *“This Product has not been manufactured from products contaminated with dioxins, and it has not been in contact with materials contaminated with dioxins throughout the manufacturing or packaging process”.*

Dioxins (sum of PCDDs and PCDFs): < 1.0 ng WHO-PCDD/FTEQ/Kg

Sum of dioxins and dioxin like PCBs (sum of PCDDs, PCDFs and PCBs): < 1.5 ng WHO-PCDD/FTEQ/Kg

Non- dioxin-like PCBs (sum of PCB (28, 52,101, 138, 153 and 180)): < 10 ppb

9. CERTIFICATE OF ANALYSIS OF OTHER UNDESIRABLE SUBSTANCES

Arsenic (As) < 2 mg/Kg

Lead (Pb) < 5 mg/Kg

Fluorine (F) < 150 mg/Kg

Cadmium (Cd) < 0.5 mg/Kg

Mercury (Hg) < 0.1 mg/Kg

10. GMO CERTIFICATE

As set out in the *Regulation (EC) No 1829/2003* and the *Regulation (EC) No 1830/2003* the manufacturer certifies this product:

- *does not contain GMO*
- *has not been produced from genetically modified organisms*
- *does not contain ingredients produced from genetically modified organisms*
- *does not require labeling in respect of the content of genetically modified organisms or the production from genetically modified organisms and/or with raw material and/or processing containing genetically modified organisms.*

The data contained in this Technical Specifications Data Sheet are based on the data submitted by the manufacturer of the product.