

GLOBALFEED AP

Selected bentonites as additives in animal feed (1m558i)

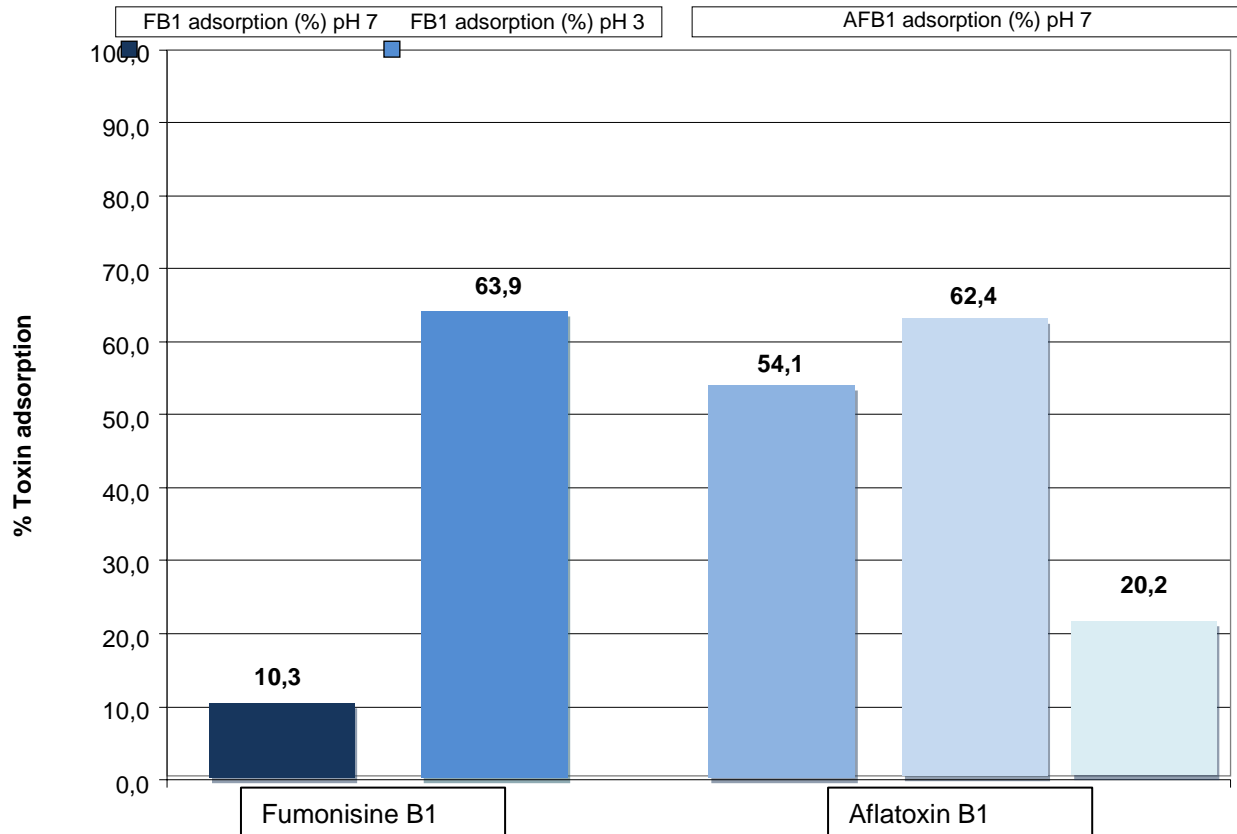
Properties and characteristics

GLOBALFEED AP is made of an extremely pure bentonite, with very high performances concerning mycotoxines adsorption as shown in the picture.

GLOBALFEED AP is a fine powder, not hygroscopic, extremely fluent.

GLOBALFEED AP		
Physical and Chemical characteristics (typical values):		
Montmorillonite	[%]	min 85
Moisture	[%]	10 - 14
Cation exchange capacity	[meq/100g]	90 -110
pH (suspension at 5% in H ₂ O)		9,5-10,5
Dry residue on 45 micron	[%]	max 6
Lead content (directive 2005/87/CE)	[ppm]	max 30
Cadmium content (directive 2005/87/CE)	[ppm]	max 2
Dioxines content (directive 2006/13/CE)	[ng WHO PCDD/F-TEQ/kg]	max 0,75
Dioxines content and PCB (directive 2006/13/CE)	[ng WHO PCDD/F-PCB-TEQ/kg]	max 1,5
Chemical analysis (typical):	[%]	
Na ₂ O		2,37
MgO		2,47
Al ₂ O ₃		14,38
SiO ₂		50,39
P ₂ O ₅		0,26
K ₂ O		0,14
CaO		2,05
TiO ₂		1,66
MnO		0,03
Fe ₂ O ₃		18,44
LOI		7,80

Analysis on the mycotoxins adsorbing capacity



Test conditions:



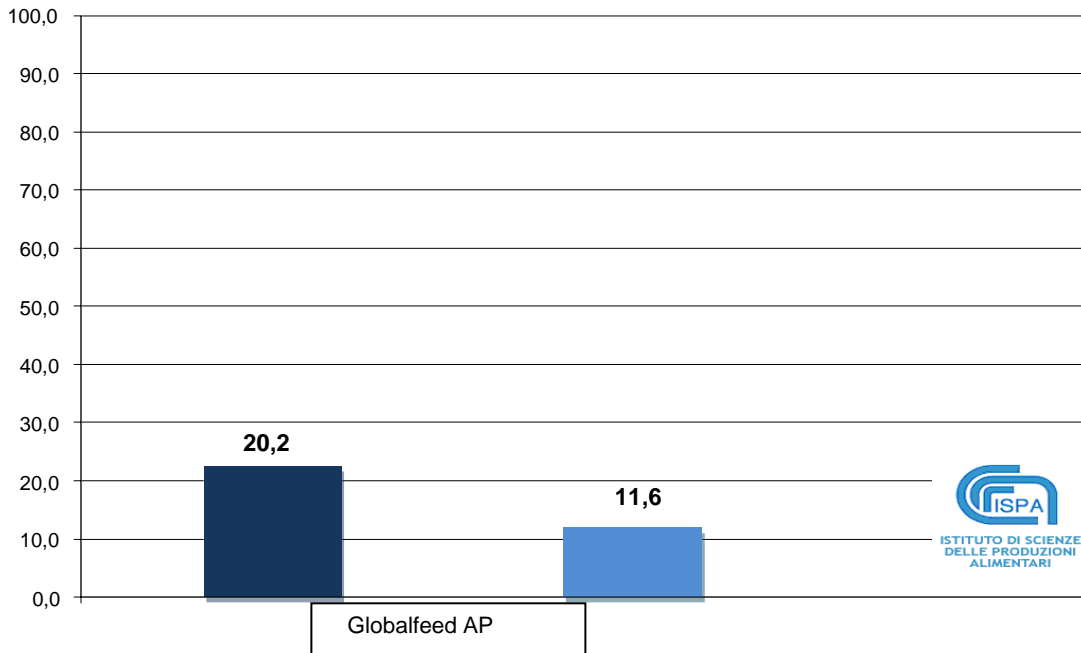
AFB1 adsorption -

- pH 7- adsorbent dose = 0.02%
 - pH 7- adsorbent dose = 0.01%
 - pH 7- adsorbent dose = 0.001%
- Toxin concentration = 1 µg/mL**

FB1 adsorption -

- pH 7 adsorbent dose 0,1%
 - pH 3 adsorbent dose 0,001%
- Toxin concentration = 1 µg/mL**

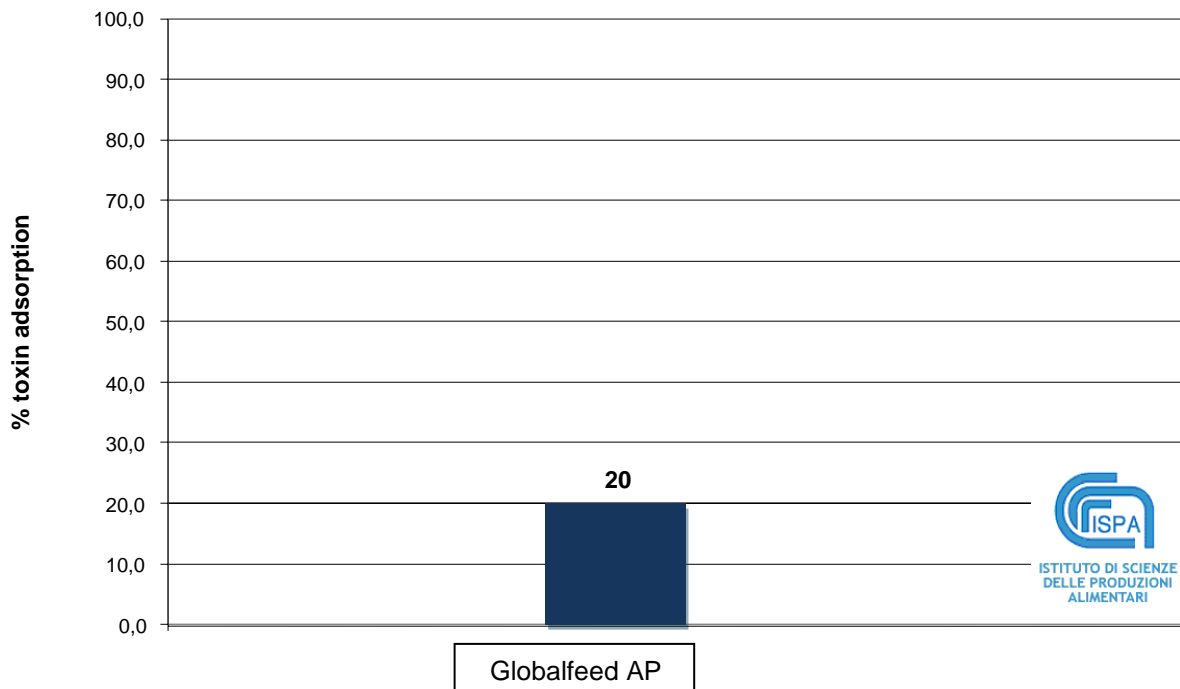




Test conditions:

- pH 7-Afla B1 concentration= 1 µg/mL
- pH 7-Afla B1 concentration= 5 µg/mL

Bentonite concentration 0,001%



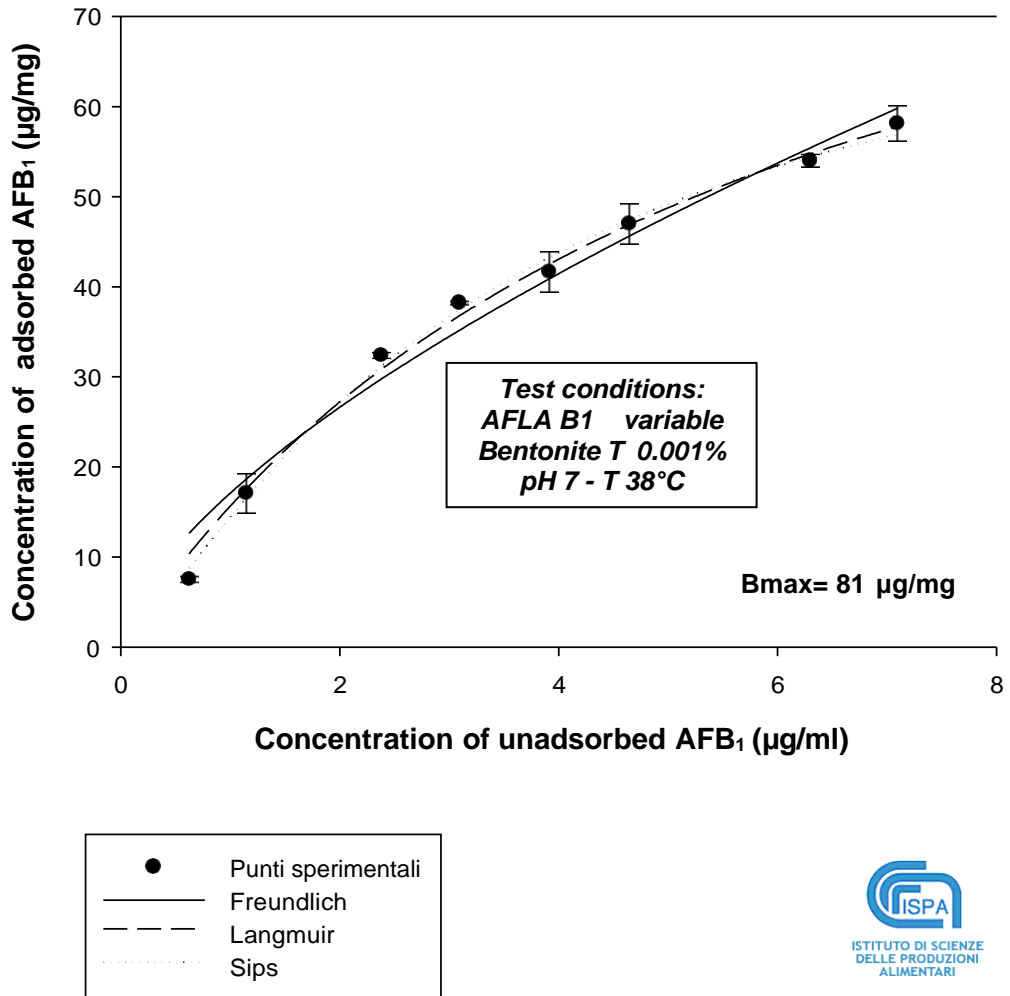
Test conditions:

- pH 3-Aflatoxin B1 concentration= 1 µg/mL

Bentonite concentration 0,001%



For **GLOBALFEED AP** has also been run an isothermal analysis to find the maximum adsorption capacity.



GLOBALFEED AP in the hydrated form has an elevated specific surface, about 800 m²/gr. This characteristic together with colloidal properties provide high adsorption behaviour and Aflatoxin control.

Recommended dose

RECOMMENDED DOSAGE		Preventive	Existing contamination
Ruminants	[g/head/day]	12-50	50-100
Others	[Kg / ton of feed]	0.5-2	2-4

Packaging

Packaging is 1000 kg big bags, 25 kg paper bags (1250 kg pallet), bulk.

Storage and Shelf Life

Product must be stocked in a dry and clean place.

Shelf life is 5 years from production date.

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