



BESTMIX® Pet food

Healthy pets give happy customers

bestmix[®]software

Producing pet foods that meet the owners' requirements is a big challenge: How do you create compelling and innovative pet foods with compliant declarations? BESTMIX[®] software is your perfect companion to manage innovation and quality control.

Be more efficient
Be more profitable
Produce at best quality

[www.adifo.com/
industry/pet-food](http://www.adifo.com/industry/pet-food)

What can BESTMIX[®] do for you?

- Accelerate your recipe design
- Guarantee compliancy and avoid recalls
- Boost your MRP efficiency
- Enhance team performance by using an integrated platform for formulation and quality control
- Monitor the quality in all production phases of your finished products
- Master the nutrient fluctuations of raw materials
- Adopt best practices in your pet food manufacturing

How we improve your pet food formulation and quality

Profit-driven pet food formulation

- Start from one level bill of material and break down in multiple levels to reflect the production phases
- Integrate moisture loss due to extrusion in the least cost formulation
- Generate private label products at a glance
- Fulfil marketing claims (non-GMO, Grain-free ...) from formulation until declaration
- Generate product datasheets in a controlled way
- Optimize your material resource planning (MRP) based on sales forecasts
- Implement smart integrations with different partners

Smart quality data management

- Robust and central database for all types of samples
- Integrate control points with ERP and production software
- Define analysis schedules to automate the assignment of tests to samples
- Capture and evaluate predictions from NIR instruments
- Process analysis results from service laboratories
- Generate CoA's on the fly
- Use raw material sample data to update raw material specs for formulation
- Explore data using pivot tables and builtin charts



1 Optimize raw material purchase

Which raw materials should you buy? When, where and at what price? BESTMIX® helps you in making the optimal purchase decisions. With BESTMIX® Multiblend you can evaluate and control the usage of raw materials in time, based on the expected sales of your pet food formulas. BESTMIX® will also optimize the allocation of purchased raw materials to your production facilities. This way, you can react to market fluctuations correctly and purchase the right quantities of raw materials at the right time.

Ingredient position	List	Postcontrol	Status	Conversion	Production	Concept/Prod	Material	Material
1	Maize			1000000	1000000			
2	Maize gluten meal (51%CP (NON GMO))			1000000	1000000			
3	Maize gluten meal (51%CP (NON GMO))			1000000	1000000			
4	Maize gluten meal (51%CP (NON GMO))			1000000	1000000			
5	Maize gluten meal (51%CP (NON GMO))			1000000	1000000			

2 Produce at lowest cost

How can you manage complex bills of materials, meet nutritional requirements and marketing claims whilst guaranteeing maximum profit? BESTMIX® enables you to generate all of this critical information and boost your business. With BESTMIX® you can easily reflect the different production steps by breaking down the master recipe into sub recipes. Furthermore, moisture loss due to extrusion is taken into account upon optimizing your recipes. This way you deliver the exact nutritional quality you claim on the label: nothing more, nothing less.

Type	Description	Mix	July	Amount
-	Salmon oil	N		12.184
-	Poultry fat	N		6.964
-	Digest Cat	N		2.857

3 Create compliant declaration

As pet food trends mirror those in human food, marketing claims have become standard practice on pet food declarations. Therefore, labelling is an integrated part of BESTMIX®, allowing you to guarantee compliancy to regulations and marketing claims early in the product development process. After approval, the product datasheets (incl. appropriate feeding guidelines) are generated in a controlled way based on user-defined templates.

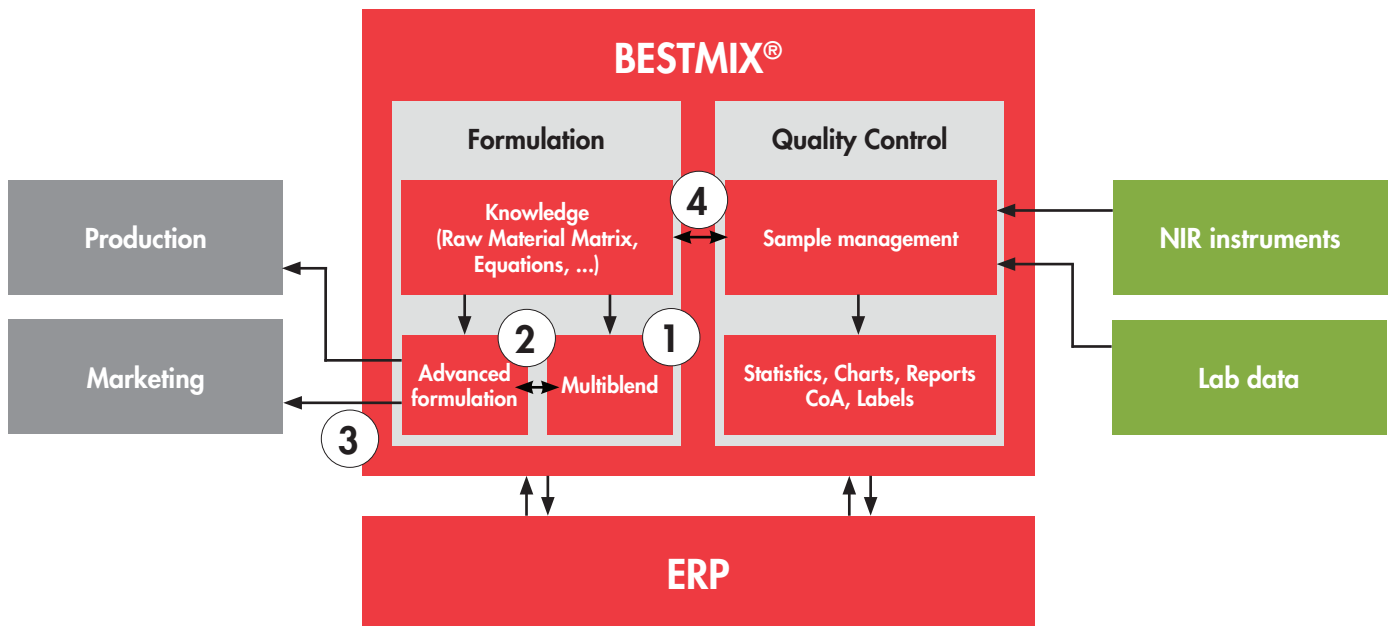
Selected	Description	Percentage	Price %	Split	Minimum	Maximum	Priority
<input checked="" type="checkbox"/>	Barley	16.540					
<input checked="" type="checkbox"/>	Maize (NON GMO)	33.000					
<input checked="" type="checkbox"/>	Maize gluten meal (51%CP (NON GMO))	21.499					
<input checked="" type="checkbox"/>	Dehydrated rice	12.000					
<input checked="" type="checkbox"/>	(By-) products of sugar	2.095					
<input checked="" type="checkbox"/>	Beetpulp	2.085					
<input checked="" type="checkbox"/>	Minerals & Vitamins	1.841					
<input checked="" type="checkbox"/>	Limestone	0.998					
<input checked="" type="checkbox"/>	KCl	0.953					
<input checked="" type="checkbox"/>	Vitamin D3 (500 IE/mg)	0.227					
<input checked="" type="checkbox"/>	Vitamin E 50% as tocopherol	0.010					
<input checked="" type="checkbox"/>	Vitamin C 100%	0.009					
<input checked="" type="checkbox"/>	Vitamin A (500 IU/mg)	0.002					
<input checked="" type="checkbox"/>	Niacin (Vitamin B3)	0.001					
<input checked="" type="checkbox"/>	Biotin 2% S.D.	0.000					
<input checked="" type="checkbox"/>	Folic Acid 90%	0.000					
<input checked="" type="checkbox"/>	Vitamin B6 HCl	0.000					
<input checked="" type="checkbox"/>	Vitamin B12 (1%)	0.000					
<input checked="" type="checkbox"/>	Oiland Fat	13.222					
<input checked="" type="checkbox"/>	Poultry fat	10.475					
<input checked="" type="checkbox"/>	Salmon oil	3.247					
<input checked="" type="checkbox"/>	Meat (By-) products	26.000					
<input checked="" type="checkbox"/>	Chicken meat meals	13.643					
<input checked="" type="checkbox"/>	Poultry meal hydrolysed	6.321					
<input checked="" type="checkbox"/>	Poultry meal	4.282					
<input checked="" type="checkbox"/>	Digest Cat	1.743					
<input checked="" type="checkbox"/>	Fatex	0.180					

4 Deliver high quality pet food

With BESTMIX® LIMS all your samples are managed in one application. Results of tests on raw materials, half products and finished products are evaluated against pre-defined limits. Raw material sample data is processed and shared with formulation, ensuring accurate recipe formulation. Formulated pet food specs are used by the quality control software as a reference for compliancy checks, allowing you to deliver what you promised to your customer: "A satisfied customer is the best business strategy".

Sample code	Date	Article	Plant	Supplier	Origin	lg	DEVT.	PROT	FAT	ASH	FIBER
20305	6/11/2015	450	0031.02	Brazilian Feed Traders Ltd	France	12800	872.50	85.90	38.20	12.00	20.00
20304	6/9/2015	450	0031.02	Cargill new maraballa 101	Germany	36000	868.50	86.80	37.40	12.00	22.00
20303	6/9/2015	450	01	Brazilian Feed Traders Ltd	Poland	24000	861.50	86.50	36.80	12.00	21.50
20301	6/5/2015	450	0031.02	Wellington grains Ltd.	Germany	18350	886.50	90.50	36.80	12.00	22.00
20300	6/1/2015	450	0031.02	Supplier 100	Poland	22400	868.50	87.90	36.80	13.20	22.00
20323	5/29/2015	450	01	Supplier 101	Germany	22400	870.00	88.60	38.00	13.50	23.50
20324	5/27/2015	450	0031.02	Company 1234	Poland	18300	866.00	85.80	35.40	11.80	21.00
20322	5/25/2015	450	0031.02	Cargill new maraballa 101	Germany	24000	872.00	86.90	36.50	12.20	21.60
20307	5/20/2015	450	01	Brazilian Feed Traders Ltd	Poland	32500	866.50	82.50	36.20	11.50	23.00
20306	5/15/2015	450	0031.02	Noble Hongkong	Germany	15000	883.50	90.80	36.80	12.20	21.00
20308	5/12/2015	450	01	Cargill Gent Terminal	France	16000	882.60	91.30	38.20	11.80	22.40

BESTMIX® Pet food workflow



Smart integrations

Production	<ul style="list-style-type: none"> • Export formulas ready for production
Marketing	<ul style="list-style-type: none"> • Deliver product datasheets as content for packaging development
Lab data	<ul style="list-style-type: none"> • Automate the import of lab results • Growing list of partners: NutriControl, TLR, Silliker, FFQ, LUFA-ITL, Nutrilab, SGS, MVTL, Sciantec, Frank Wright, Lantmännen, ...
NIR instruments	<ul style="list-style-type: none"> • Import the NIR predictions with ease • Select your connector(s): FOSS, Bruker, Perten, Buchi, Unity, ...
ERP	<ul style="list-style-type: none"> • Import raw material contract positions, prices and sales forecasts • Export bill of material and raw material consumptions • Create samples from logistic transactions • Release lots from quarantine • Growing list of partners: Microsoft Dynamics AX and NAV, MILAS® software, SAP, ...



BESTMIX® Formulation top features

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Profit-driven pet food formulation

Manage recipes, optimize in singleblend and report your data and results on a single plant system. Manage basic access permissions.

Store, manage and compare historical products (composition, analysis, ...) and make preliminary offers without interfering with production.

Add multiple plant functionality throughout BESTMIX®.

Calculate derived nutrient values (e.g. energy, amino acids, ...)

Use the 'Audit Trail' to monitor changes by all users (who, what, when)

Create your own report templates and customize standard templates.

Assign access permissions for multi-user environments with a high variety in access restriction levels and usage of BESTMIX®.

Create product communication files for production software, ERP, ...

Perform a quality control on your current productions by evaluating the effect of raw material changes on your current production (verification reports)

Determine the optimal ingredient allocation, taking into account the availability of ingredients and estimated production. Consider the market situation, the availability of ingredient stocks and the contract prices and quantities during optimization for multiple compounds (Multiblend)

Calculate optimum distribution of various ingredients over multiple production sites (MultiPlant)

Determine the optimal allocation of ingredients over several time periods (MultiPeriod)

BESTMIX® Quality Control top features

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Smart quality data management

Manage master data: articles, analysis methods, analyses, analysis packages, plants, suppliers, customers, origins, sample types, ...

Define the tolerances (absolute or relative) per nutrient and per article or article group for multiple levels (warning, alarm, error)

Create samples and assign analyses to be performed, based on analysis schedules.

Use the built-in reports, pivot tables and charts to monitor and explore your sample data.

Import results from your NIR instrument (FOSS, Bruker, Perten, Buchi, Unity)

Generate sample labels at the creation of new samples. Add barcodes for easy identification.

Generate Certificates of Analysis from your samples. Create templates with specific content and layout. Automate the assignment of the templates to the samples.

Check visual conformity of goods, packaging and labelling at intake, in production and in the warehouses. Register abnormalities, monitor and take corrective actions.

Use the 'Audit Trail' to monitor changes by all users (who, what, when)