

## Technical Data Sheet

Product Name: Cranberry Extract 25%PACs (BL-DMAC)

Trade Brand: SmartHerb

| Technical Data Sheet         |                                                                                                        |              |                 |
|------------------------------|--------------------------------------------------------------------------------------------------------|--------------|-----------------|
| Botanical Name               | Vaccinium Macrocarpon Ait.                                                                             | Part         | Fruit           |
| AC Code                      | AC03016c                                                                                               | CAS number   | -               |
| Origin                       | North America                                                                                          | Solvent Used | Water & Ethanol |
| Item                         | Standard                                                                                               |              | Analysis Method |
| Appearance                   | Purple Fine Powder                                                                                     |              | Visual          |
| Odor & Taste                 | Characteristic                                                                                         |              | Organoleptic    |
| Typical Analysis             |                                                                                                        |              |                 |
| Identification               | Compliant with standard reference                                                                      |              | HPLC            |
| Assay                        | PACs (as Procyanidin A2 equivalent) ≥25%                                                               |              | BL-DMAC         |
| Particle Size                | 95% pass 80 mesh                                                                                       |              | Sieve analysis  |
| Bulk density                 | 0.25g/ml - 0.65g/ml                                                                                    |              | Ph. Eur. 2.9.34 |
| Ash                          | ≤ 5.0%                                                                                                 |              | Ph. Eur. 2.4.16 |
| Loss on drying               | ≤ 5.0%                                                                                                 |              | Ph. Eur. 2.2.32 |
| Residual solvents            |                                                                                                        |              |                 |
| Ethanol                      | ≤ 5000ppm                                                                                              |              | GC              |
| Pesticide Residue            | Comply with EC 396/2005                                                                                |              | GC-MS/LC-MS     |
| Contaminants                 |                                                                                                        |              |                 |
| Benzo(a)pyrene               | ≤ 10µg/kg                                                                                              |              | (EU) 915/2023   |
| PAH4                         | ≤50µg/kg                                                                                               |              | (EU) 915/2023   |
| Aflatoxin (Σ B1, B2, G1, G2) | < 10ppb                                                                                                |              | Ph. Eur. 2.8.18 |
| Aflatoxin B1                 | < 5ppb                                                                                                 |              | Ph. Eur. 2.8.18 |
| Heavy metals                 |                                                                                                        |              |                 |
| Heavy metals                 | ≤ 10ppm                                                                                                |              | ICP-MS          |
| Lead (Pb)                    | ≤ 2ppm                                                                                                 |              | ICP-MS          |
| Arsenic (As)                 | ≤ 2ppm                                                                                                 |              | ICP-MS          |
| Cadmium (Cd)                 | ≤ 1ppm                                                                                                 |              | ICP-MS          |
| Mercury (Hg)                 | ≤ 0.1ppm                                                                                               |              | ICP-MS          |
| Microorganism                |                                                                                                        |              |                 |
| Total Bacterial Count        | <1000cfu/g                                                                                             |              | Ph. Eur. 2.6.12 |
| Total Molds Count            | <100cfu/g                                                                                              |              | Ph. Eur. 2.6.12 |
| Salmonella                   | Negative/25g                                                                                           |              | Ph. Eur. 2.6.13 |
| E. coli                      | Negative/10g                                                                                           |              | Ph. Eur. 2.6.13 |
| Staphylococcus aureus        | Negative/10g                                                                                           |              | Ph. Eur. 2.6.13 |
| Package                      | N.W. 25Kgs/fiber drum and two plastic bags inside.                                                     |              |                 |
| Shelf life                   | 2 Year When Properly Store                                                                             |              |                 |
| Storage                      | Store in well-closed container at room temperature, protect from light, moisture and pest infestation. |              |                 |

## INGREDIENTS

An ingredient is defined in Directive 2000/13/EC on labelling: "ingredient means any substance including additives, used in the production or preparation of a foodstuff and still present in the finished product although possibly in a modified form" i.e all raw materials to produce the goods.

Please list all ingredients:

| Ingredients/material composition | %    | Country of origin |
|----------------------------------|------|-------------------|
| Cranberry Extract                | 100% | China             |
|                                  |      |                   |
|                                  |      |                   |

## ORIGIN

|                                                                       |                                  |                                                                                                                                                                                                              |                             |                |       |
|-----------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------|-------|
| Country of origin of the product: China                               |                                  |                                                                                                                                                                                                              |                             |                |       |
| Is a manufacturing process available                                  |                                  | <input checked="" type="checkbox"/> YES                                                                                                                                                                      | <input type="checkbox"/> NO |                |       |
| Source of the product:                                                |                                  | <input type="checkbox"/> Animal <input checked="" type="checkbox"/> Plant <input type="checkbox"/> Mineral origin <input type="checkbox"/> Synthetic<br><input type="checkbox"/> Biotechnological processing |                             |                |       |
| <b>please answer the following questions.</b>                         |                                  |                                                                                                                                                                                                              |                             |                |       |
| Botanical name                                                        | <i>Vaccinium Macrocarpon Ait</i> | Geographical origin                                                                                                                                                                                          | North America               |                |       |
| Part of the plant                                                     | Fruit                            | Wild or Cultivated                                                                                                                                                                                           | Cultivated                  |                |       |
| Harvest method                                                        | Manual harvesting                | Harvest period                                                                                                                                                                                               | From Spring to Autumn       |                |       |
| Is the technical data sheet of the plant raw material available       |                                  | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO                                                                                                                                          |                             |                |       |
| Are there any agents responsible for adverse effects                  |                                  | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO                                                                                                                                          |                             |                |       |
| If yes, please precise:                                               |                                  |                                                                                                                                                                                                              |                             |                |       |
| Please precise the methods of eliminating risk constituents:          |                                  |                                                                                                                                                                                                              |                             |                |       |
| <b>Could you precise the treatments used on the plant harvesting?</b> |                                  |                                                                                                                                                                                                              |                             |                |       |
| Irrigation                                                            | Fertilizers                      | Herbicides                                                                                                                                                                                                   | Insecticides                | Fungicides     | Other |
| Yes                                                                   | Yes                              | Controlled use                                                                                                                                                                                               | Controlled use              | Controlled use | None  |
|                                                                       |                                  |                                                                                                                                                                                                              |                             |                |       |

|                                                                           |                                            |                                                 |                                                       |
|---------------------------------------------------------------------------|--------------------------------------------|-------------------------------------------------|-------------------------------------------------------|
| <b>Could you precise the treatments /transformations after harvest?</b>   |                                            |                                                 |                                                       |
| <input checked="" type="checkbox"/> Decontaminated plant (treatment used: |                                            | <input type="checkbox"/> Undecontaminated plant |                                                       |
| <input checked="" type="checkbox"/> Washing                               | <input checked="" type="checkbox"/> Drying | <input type="checkbox"/> Natural drying:        | <input checked="" type="checkbox"/> Artificial drying |
| Other:                                                                    |                                            |                                                 |                                                       |
| <b>If mineral origin, please specify species</b>                          |                                            |                                                 |                                                       |
| <b>If synthetic, please specify species</b>                               |                                            |                                                 |                                                       |

## GENETICALLY MODIFIED ORGANISMS-GMO

According to EU regulations EC/1829/2003 & EC/1830/2003

According to the EU regulations concerning the traceability and labelling of Genetically Modified Organisms (GMO), and the traceability of food products produced from GMO, we confirm that the product:

|                                                                                                                                                                   |                                         |                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------|
| Contains ingredient(s) from Maize and/or Soya origin                                                                                                              | <input type="checkbox"/> YES            | <input checked="" type="checkbox"/> NO |
| Contains no material which contains, consists of or is produced from authorized GMOs in proportion higher than 0.9%. This presence is adventitious or technically | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            |



**SmartHerb**  
Innovating Botanical Health

Address: Chengnan Road, Huaxi Subdistrict, Changxing  
County, Huzhou City, Zhejiang Province, 313100, China

|                                                                                                                                                                                                                                 |                                         |                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------|
| unavoidable                                                                                                                                                                                                                     |                                         |                                        |
| is GMO or contains or consists of GMOs                                                                                                                                                                                          | <input type="checkbox"/> YES            | <input checked="" type="checkbox"/> NO |
| is produced from GMOs or contains ingredients produced from GMOs                                                                                                                                                                | <input type="checkbox"/> YES            | <input checked="" type="checkbox"/> NO |
| Contains ingredient(s) from other potential GMO-risk raw material(s) (rice, beet, cotton ...)                                                                                                                                   | <input type="checkbox"/> YES            | <input checked="" type="checkbox"/> NO |
| If Yes, please specify:<br>o ingredient:<br>o vegetable origin:<br>o geographic origin:                                                                                                                                         |                                         |                                        |
| Contains no material which contains, consists of or is produced from evaluated GMOs in proportion higher than 0,5%. This presence is adventitious or technically unavoidable                                                    | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            |
| For information about processing aids,<br>is produced or contains ingredient(s) produced with GMOs or Genetically Modified Microorganisms processing aids (bacteria, yeast... or derived from GMOs or GMMs (including enzymes)) | <input type="checkbox"/> YES            | <input checked="" type="checkbox"/> NO |
| If yes, please specify:                                                                                                                                                                                                         |                                         |                                        |
| We confirm that the ingredient supplied is compliant in all respects with the Regulations N°1829/2003/EC and N°1830/2003/EC where applicable                                                                                    | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            |

## SUBSTANCES OR PRODUCTS CAUSING ALLERGIES OR INTOLERANCES

According to Regulation (EU) No. 1169/2011 as regards of ingredients present in foodstuffs

| Allergenic substances<br>(Regulation EU 1169/2011 – Annex II)                                       | Present in finished product | Present in the manufacturing site | Present on the same manufacturing line | Possible cross-contamination |
|-----------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------|----------------------------------------|------------------------------|
| Cereals containing gluten (i.e. wheat, rye, barley, oats, spelt, kamut or their hybridised strains) | NO                          | NO                                | NO                                     | NO                           |
| Crustaceans and products thereof                                                                    | NO                          | NO                                | NO                                     | NO                           |
| Eggs and products thereof                                                                           | NO                          | NO                                | NO                                     | NO                           |
| Fish and products thereof                                                                           | NO                          | NO                                | NO                                     | NO                           |
| Peanuts and products thereof                                                                        | NO                          | NO                                | NO                                     | NO                           |
| Soybeans and products thereof                                                                       | NO                          | NO                                | NO                                     | NO                           |
| Milk and products thereof (including lactose)                                                       | NO                          | NO                                | NO                                     | NO                           |
| Nuts (almond, hazelnut, walnut, cashew, pecan nut, Brazil nut, pistachio nut, macadamia nut)        | NO                          | NO                                | NO                                     | NO                           |



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|                                                                                    |    |    |    |    |
|------------------------------------------------------------------------------------|----|----|----|----|
| Celery and products thereof                                                        | NO | NO | NO | NO |
| Mustard and products thereof                                                       | NO | NO | NO | NO |
| Sesame seeds and products thereof                                                  | NO | NO | NO | NO |
| Sulphur dioxide and sulphites (>10 mg/kg or 10 mg/L expressed as SO <sub>2</sub> ) | NO | NO | NO | NO |
| Lupin and products thereof                                                         | NO | NO | NO | NO |
| Molluscs and products thereof                                                      | NO | NO | NO | NO |

## NON IRRADIATION

According to UE Directive No.1999/2/CE

|                                                                            |                                         |                                        |
|----------------------------------------------------------------------------|-----------------------------------------|----------------------------------------|
| Has this raw material or one of its ingredients been irradiated or ionised | <input type="checkbox"/> YES            | <input checked="" type="checkbox"/> NO |
| We confirm above non-irradiation statement is available                    | <input checked="" type="checkbox"/> YES |                                        |

## NANOMATERIAL

According to Regulation(EU)No 1169/2011

|                                                                                      |                              |                                        |
|--------------------------------------------------------------------------------------|------------------------------|----------------------------------------|
| Does this raw material contain or can be considered asengineered nanomaterial        | <input type="checkbox"/> YES | <input checked="" type="checkbox"/> NO |
| Does this raw material have been made with nanotechnology?                           | <input type="checkbox"/> YES | <input checked="" type="checkbox"/> NO |
| Does the product contain nanotechnology as defined by the French decree no.2012-232? | <input type="checkbox"/> YES | <input checked="" type="checkbox"/> NO |

## WADA Anti-Doping Statement

Current WADA Prohibited List

|                                                                                                                            |                              |                                        |
|----------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------|
| Does the product contain any prohibited substances (hormones, anabolic agents, stimulants) listed on WADA Prohibited List? | <input type="checkbox"/> YES | <input checked="" type="checkbox"/> NO |
| Is there any risk of cross-contamination with WADA banned substances during production?                                    | <input type="checkbox"/> YES | <input checked="" type="checkbox"/> NO |

## RESIDUAL SOLVENTS

According to UE Directive 2009/32 modified by (UE)2010/59 and CPMP/ICH/283/95Q3C

|                                                                                                                                |                                         |                             |
|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------|
| Does the raw material contain any residual solvent                                                                             | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO |
| If yes,please give:<br>percentage and name of each solvent used: Water & Ethanol<br>level of residual solvents:Ethanol≤5000ppm |                                         |                             |
| Is the product in compliance with the UE Directive 2009/32                                                                     | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO |
| Is the product in compliance with the ICH guidelines                                                                           | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO |

## FOOD CERTIFICATE

|                                      |                                |                                    |                                    |                                           |
|--------------------------------------|--------------------------------|------------------------------------|------------------------------------|-------------------------------------------|
| Manufacturer's quality certificates: |                                |                                    |                                    |                                           |
| ISO 9001 <input type="checkbox"/>    | HACCP <input type="checkbox"/> | ISO 14001 <input type="checkbox"/> | ISO 22000 <input type="checkbox"/> | <input checked="" type="checkbox"/> OTHER |



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|                                                                                 |                                         |                                        |
|---------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------|
| Is the raw material Food Grade?                                                 | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            |
| Can the product be used in baby food(Directive 2006/141/CE)?                    | <input type="checkbox"/> YES            | <input checked="" type="checkbox"/> NO |
| Does the product comply with the UE Regulation No231/2012 about additives?      | <input type="checkbox"/> YES            | <input checked="" type="checkbox"/> NO |
| Is the product complying with a Pharmacopeia monography?                        | <input type="checkbox"/> YES            | <input checked="" type="checkbox"/> NO |
| Is the product complying with the UE Regulation No.1334/2008 about flavourings? | <input type="checkbox"/> YES            | <input checked="" type="checkbox"/> NO |
| Was the product used in the European food industry before May 1997?             | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            |
| If no,could you provide an authorisation (according to Regulation 258/97/EC)?   | <input type="checkbox"/> YES            | <input type="checkbox"/> NO            |
| Are stability studies available?                                                | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            |

## CONTAMINANTS

| Is the product conforming to UE regulations No 2023/915 setting maximum levels for certain contaminants in foodstuffs,as amended? |                        | <input type="checkbox"/> YES | <input type="checkbox"/> NO |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------------|-----------------------------|
| Contaminants                                                                                                                      | Tested?                | Result                       |                             |
| Pesticides (multi-residue)?                                                                                                       | Can be provide if need | Complies with EU 396/2005    |                             |
| Dioxins and dioxin like PCBs?                                                                                                     | NO                     | Complies with EU 915/2023    |                             |
| Heavy metals                                                                                                                      | Can be provide if need | Complies ( $\leq 10$ ppm)    |                             |
| PAHs(PAH4)                                                                                                                        | Can be provide if need | Complies with EU 915/2023    |                             |
| Benzo[a]pyrens?                                                                                                                   | Can be provide if need | Complies with EU 915/2023    |                             |
| Mycotoxins (Aflatoxins, OTA)                                                                                                      | Can be provide if need | Complies with EU 915/2023    |                             |
| 3-MCPD                                                                                                                            | NO                     | Not applicable               |                             |
| Doping like substances?<br><a href="http://list.wada-ama.org/">http://list.wada-ama.org/</a>                                      | NO                     | Not applicable               |                             |

## FOREIGN BODIES

| Which material do you use in order to fight against the foreign bodies |           |                |                                          |
|------------------------------------------------------------------------|-----------|----------------|------------------------------------------|
|                                                                        | Presence? | Test frequency | Where is it located on the process line? |
| Magnet                                                                 | YES       | Continuous     | Raw material intake / processing line    |
| Metal detector                                                         | YES       | Each batch     | Before packaging                         |
| Sieve                                                                  | YES       | Continuous     | During processing                        |
| Filter                                                                 | YES       | Continuous     | Extraction / filtration stage            |
| X-ray detection                                                        | NO        | N/A            | N/A                                      |
| Other(please specify)                                                  |           |                |                                          |

## NUTRITIONAL VALUES

| Nutritional Composition | <input checked="" type="checkbox"/> Per 100g | <input type="checkbox"/> Per serving |
|-------------------------|----------------------------------------------|--------------------------------------|
| Energy(kJ/kcal)         | 1,150–1,400 kJ                               |                                      |
| Total Fat(g)            | 0.1 – 1.0 g                                  |                                      |
| Total Carbohydrate(g)   | 55 – 75 g                                    |                                      |
| Fibre(g)                | 5 – 15 g                                     |                                      |



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|                                                                                             |             |
|---------------------------------------------------------------------------------------------|-------------|
| Protein(g)                                                                                  | 0.5 – 2.0 g |
| Salt(g)                                                                                     |             |
| Vitamins:                                                                                   |             |
| Minerals:                                                                                   |             |
| Remarks: Nutrition Data are obtained by 3 <sup>rd</sup> party lab; tested on a yearly basis |             |

## TRACEABILITY

|                                                 |                                                                                       |
|-------------------------------------------------|---------------------------------------------------------------------------------------|
| Batch size                                      | 500kg                                                                                 |
| Batch definition                                | A batch is defined as a homogeneous production lot produced under the same conditions |
| Signification of the batch number by an example |                                                                                       |
| Marking method (labelling...)                   |                                                                                       |

## PACKAGING

|                                                                                                                                                                  |                                         |                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------|
| Is the packaging material approved as food grade according to regulations 1935/2004,10/2011 and 1282/2011?                                                       | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO |
| Do you guarantee the packaging traceability according to regulation 1935/2004(art 17)?                                                                           | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO |
| Can you guarantee that the product and its packaging supplied to do not contain Phtalates?                                                                       | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO |
| Can you guarantee that the product and its packaging supplied to do not contain ITX? (A packaging contaminant:Isopropylthioxanthone(ITX)found in dairy products) | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO |
| Can you guarantee that the product and its packaging supplied to do not contain BisphenolA(BPA)?                                                                 | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO |
| Do you add desiccant bags during packaging process? If so,where do you mention it:.....                                                                          | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO |
| Can you provide migration test in order to guarantee packaging safety?                                                                                           | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO |



## Flow Chart

