

## TECHNICAL DATA SHEET

### SWEET FENNEL FR 4:1 DE PR2992

<b>Botanical kind:</b>	<i>Apiaceae Foeniculum vulgare Mill. subsp. <i>vulgare</i> var. <i>dulce</i> (Miller) Batt &amp; Trab. (= <i>Foeniculum vulgare</i> Mill.)</i>
<b>Part of the plant:</b>	<i>Fruit (akene)</i>
<b>Ratio plant / final extract:</b>	<i>4 to 1 (a)</i>
<b>Extraction solvent(s):</b>	<i>Water</i>
<b>Carrier(s) :</b>	<i>Wheat maltodextrin</i>

#### DESCRIPTION

	Specifications	Methods and references
<b>Appearance</b>	<i>Powder</i>	
<b>Color</b>	<i>Beige yellowish to dark brown</i>	
<b>Solubility</b>	<i>To be tested following the degree of incorporation</i>	

#### ANALYSES

	Specifications		Method and reference
	Min	Max	
<b>Estragole content [ppm] (4)</b>	<i>Indicative value</i>		<i>AE-22 - GC-MS, internal method for aromatic substances</i>
<b>Fenchone content [ppm] (4)</b>	<i>Indicative value</i>		<i>AE-22 - GC-MS, internal method for aromatic substances</i>
<b>Identification (raw material) (4)</b>	<i>Complies</i>		<i>MO-69 - TLC, Eur. Ph. (04/2011:0825), "Fennel, sweet" monograph</i>
<b>Loss on drying [%]</b>	-	8.00	<i>MO-183 - Eur. Ph. (01/2008:20817) and (02/2008:20816)</i>
<b>Bulk density</b>	0.30	0.70	<i>MO-181 - Eur. Ph. (04/2019:20934)</i>
<b>Total ash content [%]</b>	-	< 10.00	<i>MO-01 - Muffle furnace, Eur. Ph. (01/2008:20416), "Total ash" adapted monograph</i>
<b>pH (1% in demineralized water)</b>	4.0	7.0	<i>MO-03 - pH-meter, Eur. Ph. (07/2016:20203), "Potentiometric determination of pH" monograph</i>
<b>Screening [ % &lt; 500 µm]</b>	95.0	-	<i>MO-184 - Granulometer, internal method</i>

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CONTAMINANTS	Specifications		Method and reference
	Min	Max	
Pb content [ppm] (4)	-	< 3.00	AE-01 - ICP, internal method
Cd content [ppm] (4)	-	< 1.00	AE-01 - ICP, internal method
Hg content [ppm] (4)	-	< 0.10	AE-01 - ICP, internal method
As content [ppm] (4)	-	< 1.00	AE-01 - ICP, internal method
Pesticides content [ppm] (4)	< Residual Maximum Limit fixed in European regulation 396/2005 and its modifications		AE-02 - GC-MSMS/LC-MSMS, internal method
Pahs (sum of benzo(a)pyrene, benz(a)anthracene, benzo(b)fluoranthene and chrysene) content [ppb] (4)	-	< 50.0	AE-03 - GC-MS-MS, internal method
Benzo(a)pyrene content [ppb] (4)	-	< 10.0	AE-03 - GC-MS-MS, internal method

MICROBIOLOGY	Specifications		Method and reference
	Min	Max	
Total aerobic microbial count [CFU/g] (1)	-	< 10 000	AE-04 - Eur. Ph. (07/2010:20612) and (01/2014:20631)
Total yeasts/moulds count [CFU/g] (1)	-	< 100	AE-04 - Eur. Ph. (07/2010:20612) and (01/2014:20631)
Salmonella content [ /25g]	Absent		AE-04 - Eur. Ph. (07/2010:20612) and (01/2014:20631)
Bile-tolerant Gram negative bacteria content [CFU/g]	-	< 100	AE-04 - Eur. Ph. (07/2010:20612) and (01/2014:20631)
Escherichia coli content [ /g]	Absent		AE-04 - Eur. Ph. (07/2010:20612) and (01/2014:20631)

(1) Acceptable maximal count: 5 times the acceptance criterion according to Eur. Ph. VIII° Ed. 5.1.8 Category B

(4) HACCP based control plan defined annually according risk analysis

Shelf life/ DMD 24  
(in months) :

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**Storage conditions:** *Store in closed original packaging at 5 to 25°C in a dry place and protected from light.*

**Complementary data** (a): *Variable indicative ratio depending on productions and / or variability of the raw material. Non contractual data*

*This reference is neither an Active Pharmaceutical Ingredient nor an excipient for pharmaceutical use  
Responsibility of final labelling lies with the company placing the final product on the market.*

- Complies with French decrees (2006-352 and 24th June 2014)*
- According to Regulation 1999/3/EC, and its modifications, has not been ionized.*
- According to the Regulations 2001/18/EC, 1829/2003 and 1830/2003, and its modifications, the above mentioned item does not contain deliberately added GMO. (fortuitous or technically inevitable traces could be detected at less than 0,9%)*
- The product does not contain TSE/BSE substances*