 Site of Saint-Barthélémy-d' Anjou Direction R&D	TECHNICAL PRODUCT SHEET FOR USE BY PROFESSIONALS	FROM DRD I.DUSSOUS / EL	
	EXTRAIT PERE JACOBERT 60 % vol.	<u>Updating</u> 25/01/10	<u>Page</u> 1 / 5

Form created in 1998

1. LEGAL DEFINITION

- ◆ Spirit (in conformity with E.C. Council regulation Number 110/2008 and its amendments).

2. LABELLING

- ◆ Spirit

3. INGREDIENTS

Nature	Quantity (in % weight/weight)
Ethyl alcohol at 100 % vol.	52,1
Water	47,6
Natural flavour of orange peels (ethyl alcohol, water, orange peels)	confidential (more than 25 %)
Other natural flavours (contain almonds)	confidential
Cognac	confidential
Colouring caramel : E 150 a	quantum satis (about 0,03 %)

4. CHEMICAL COMPOSITION


- ◆ Water, ethanol (ethyl alcohol), specific organic components issued from the raw materials, mineral components issued from these raw materials

5. ELABORATION PROCESS

51. Production of natural flavours by distillation and/or maceration of materials of vegetal origin with ethyl alcohol and water.
52. Mixing, in defined proportions, of the natural flavours obtained in 51, to which are added the cognac, the neutral alcohol and the purified water required to obtain an alcoholic strength of 60 % vol.
52. Colouring with the caramel
53. Filtration through filter sheets or cartridges
54. Bottling.

6. USE

- ◆ According to professional use or information of your supplier.

 Site of Saint-Barthélemy-d'Anjou Direction R&D	TECHNICAL PRODUCT SHEET FOR USE BY PROFESSIONALS	FROM DRD I.DUSSOUS / EL	
	EXTRAIT PERE JACOBERT 60 % vol.	<u>Updating</u> 25/01/10	<u>Page</u> 2 / 5

Form created in 1998

7. CONDITIONS OF STORAGE AND SHELF LIFE

- ◆ conditions of storageit is advisable to keep the product in its closed
original container, away from light and at a
temperature close to 15° C.
- ◆ shelf life (Best before date) in the recommended conditions of storage :
 - ◆ in the unopened 1L Pet plastic bottle24 months after date of bottling
- ◆ minimum shelf life (Best before date) guaranteed on receipt
 - ◆ in the unopened 1 L Pet plastic bottle6 months


8. PHYSICO-CHEMICAL DATA

- ◆ appearancelimpid liquid
- ◆ main taste.....orange
- ◆ main smellorange
- ◆ colour.....clear brown
- ◆ solubility.....soluble with alcohol, not much soluble with
 water
- ◆ true alcoholic strength by volume
 (@ 20° C in % vol).....60,0 ± 0,3
- ◆ specific gravity @ 20°C (kg/litre)0,909 ± 0,001
- ◆ total acidity (in g as acetic acid/litre)0,10 ± 0,02
- ◆ dry extract (g/litre)3,7 ± 0,7
- ◆ viscosity @ 20°C in centipoises (m.Pa.S)2,75 ± 0,25
- ◆ maximum temperature for use.....A rise in temperature leads to a loss of alcohol
and flavour through evaporation
- ◆ flash point (° C).....23

9. MICROBIOLOGICAL DATA (yeast, mould, bacteria)

- ◆ not applicable (content in alcohol sufficient to guarantee the absence of any microorganisms in the product).

10. NUTRITIONAL DATA

 Site of Saint-Barthélémy-d' Anjou Direction R&D	TECHNICAL PRODUCT SHEET FOR USE BY PROFESSIONALS	FROM DRD I.DUSSOUS / EL	
	EXTRAIT PERE JACOBERT 60 % vol.	<u>Updating</u> 25/01/10	<u>Page</u> 3 / 5

Form created in 1998

	Quantity		Quantity
Carbohydrate (g/l)	3,2	Protein (g/l)	0
Of which :			
- sugars (g/l)	3,2		
- fibers (g/l)	0		
Fat (g/l)	0	Ethanol (ethyl alcohol)	60 % vol. (474 g/litre or 521 g/kg)
Of which :			
- saturated fatty acids (g/l)	0		
- trans fatty acids (g/l)	0		
Sodium	0	Iron	0
Calcium	0	Vitamins	0
Calories/litre (kCal/litre)	3 328	kiloJoules/litre (kJ/litre)	13 787
Calories/100 g (kCal/100 g)	366	kiloJoules/100 g (kJ/100 g)	1 517

Convenient for the following diets : intolerance to lactose, vegans, vegetarians, ovo-lacto vegetarians (consuming nothing but eggs and milk), coeliac disease (intolerance to gluten).

11. TOXICOLOGICAL DATA

111. HEAVY METALS	Quantity		Quantity
Arsenic	< 3 mg/kg	Mercury	< 1 mg/kg
Lead	< 10 mg/kg	Cadmium	< 1 mg/kg


112. MYCOTOXINES

- ◆ presence not detected

113. RESIDUES OF PESTICIDES

- ◆ presence not detected

114. GENETICALLY MODIFIED ORGANISMS (GMO) AND LABELLING

 Site of Saint-Barthélémy-d'Anjou Direction R&D	TECHNICAL PRODUCT SHEET FOR USE BY PROFESSIONALS	FROM DRD I.DUSSOUS / EL	
	EXTRAIT PERE JACOBERT 60 % vol.	<u>Updating</u> 25/01/10	<u>Page</u> 4 / 5

Form created in 1998

- ◆ this product :
 - ◆ is not a GMO
 - ◆ does not consist of GMO
 - ◆ is not produced from GMO
 - ◆ does not contain ingredients (including additives and flavors) produced from GMO

and consequently :


- ◆ is not subject to declaration and/or labelling.
(EC regulations N° 1829/2003 and N° 1830/2003).

115. DIOXINES

- ◆ product not concerned
(EC regulation N° 466/2001 modified by the EC regulation N° 684/2004).

116. TREATMENT BY IONIZATION

- ◆ This product is not subject to treatment by ionization.

 Site of Saint-Barthélémy-d'Anjou Direction R&D	TECHNICAL PRODUCT SHEET FOR USE BY PROFESSIONALS	FROM DRD I.DUSSOUS / EL	
	EXTRAIT PERE JACOBERT 60 % vol.	<u>Updating</u> 25/01/10	<u>Page</u> 5 / 5

Form created in 1998

117. PRESENCE/ABSENCE OF ALLERGENS (Directive 2003/89/EC)

◆ This product :

◆ **Contains :**

- Nut (almond)

◆ **Does not contain any of the following ingredients :**

- Cereals containing gluten (i.e. wheat, rye, barley, oats, spelt, kamut or their hybridised strains) and products thereof
- Crustaceans and products thereof
- Eggs and products thereof
- Fish and products thereof
- Peanuts and products thereof
- Soybeans and products thereof
- Milk and products thereof (including lactose)
- Celery and products thereof
- Mustard and products thereof
- Sesame seeds and products thereof
- Sulphur dioxide and sulphites at concentrations of more than 10 mg/kg or 10 mg/litre expressed as SO₂
- Lupin and products thereof
- Molluscs and products thereof

◆ **Does not contain any other ingredients than those listed in point 3. of this technical sheet.**

Issued in Saint-Barthélémy-d'Anjou,
on 25/01/2010



Isabelle DUSSOUS
R.&D./ Process Manager

Remark :

The information and suggestions contained herein are confidential. Even though they have been written up with the utmost care, they do not involve our responsibility and are given for information only. It is the responsibility of the user to make sure that the conditions of use are appropriate, especially as regard the applicable laws or regulations.

N.B. : The safety data sheet is available on request..