



**RPA Olive Oil Inspection**

**HCG42a**

**Laboratory Analysis Form – If declared as Extra Virgin Olive Oil**

*For completion by the RPA Contracted Laboratory*

Type of analysis	Primary <input type="checkbox"/>	Counter <input type="checkbox"/>	Inspection reference number	<input type="text"/>
Lab reference number	<input type="text"/>		Date of bottling (if known)	<input type="text"/>
Date sample received	<input type="text"/>		Date sample opened (chemical analysis)	<input type="text"/>
Date sample opened (organoleptic analysis)	<input type="text"/>		Date by which all tests completed	<input type="text"/>
Was the sample (and associated replicates) received in a box/container with an unbroken seal?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Was the sampled bottle/pack fitted with an opening system that can no longer be sealed after the first time it is opened?	Yes <input type="checkbox"/> No <input type="checkbox"/>

Test type	Method within Regulation 2568/91	Specification limit / requirement* Before 1 March 2014	Specification limit / requirement* From 1 March 2014	Measurement uncertainty (tolerance)	Date of analysis	Result	Outcome	
							Pass	Fail
Fatty acid ethyl esters (FAEEs) mg/kg	Annex XX	$\Sigma$ FAME + FAEE $\leq$ 75 mg/kg or 75 mg/kg $<$ $\Sigma$ FAME + FAEE $\leq$ 150 mg/kg and (FAEE/FAME) $\leq$ 1,5	FAEEs $\leq$ 40 mg/kg (2013-2014 crop year). FAEEs $\leq$ 35 mg/kg (2014-2015 crop year). FAEEs $\leq$ 30 mg/kg (after 2015 crop years)				<input type="checkbox"/>	<input type="checkbox"/>
Acidity (%)	Annex II	$\leq$ 0.8	$\leq$ 0.8				<input type="checkbox"/>	<input type="checkbox"/>
Peroxide mEq O <sub>2</sub> /kg	Annex III	$\leq$ 20	$\leq$ 20				<input type="checkbox"/>	<input type="checkbox"/>
Waxes (mg/kg)	Annex IV	$\leq$ 250	C42+C44+C46 $\leq$ 150				<input type="checkbox"/>	<input type="checkbox"/>
2-glyceril monopalmitate (%)	Annex VII	$\leq$ 0.9 if total palmitic acid % $\leq$ 14 %. $\leq$ 1.0 if total palmitic acid % $>$ 14 %	$\leq$ 0.9 if total palmitic acid % $\leq$ 14 %. $\leq$ 1.0 if total palmitic acid % $>$ 14 %				<input type="checkbox"/>	<input type="checkbox"/>

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								Pass	Fail
	Stigmastadienes mg/kg	Annex XVII	≤ 0.10	≤ 0.05				<input type="checkbox"/>	<input type="checkbox"/>
	Difference ECN42 (HPLC) and ECN42 (theoretical calculation)	Annex XVIII	≤ 0.2	≤  0.2				<input type="checkbox"/>	<input type="checkbox"/>
	K <sub>232</sub>	Annex IX	≤ 2.50	≤ 2.50				<input type="checkbox"/>	<input type="checkbox"/>
	K <sub>268</sub> Or K <sub>270</sub>	Annex IX	≤ 0.22	≤ 0.22				<input type="checkbox"/>	<input type="checkbox"/>
	Delta K	Annex IX	≤ 0.01	≤ 0.01				<input type="checkbox"/>	<input type="checkbox"/>
	Organoleptic evaluation: Median defect (Md)	Annex XII	Md = 0	Md = 0				<input type="checkbox"/>	<input type="checkbox"/> **
	Organoleptic evaluation: Fruity median (Mf)	Annex XII	Mf > 0	Mf > 0				<input type="checkbox"/>	<input type="checkbox"/> **
	Volatile halogenated solvents mg/kg	Annex XI	Max' content of each halogenated solvent detected: 0.1 mg/kg. Max' total content of halogenated solvents detected: 0.2 mg/kg	Max' content of each halogenated solvent detected: 0.1 mg/kg. Max' total content of halogenated solvents detected: 0.2 mg/kg				<input type="checkbox"/>	<input type="checkbox"/>
	Extraneous vegetable oils	Annex XXa	Absent	Absent				<input type="checkbox"/>	<input type="checkbox"/>
Fatty acid composition	Myristic (%)	Annex XA & XB	≤ 0.05	≤ 0.03				<input type="checkbox"/>	<input type="checkbox"/>
	Linolenic (%)		≤ 1.0	≤ 1.00				<input type="checkbox"/>	<input type="checkbox"/>
	Arachidic (%)		≤ 0.60	≤ 0.60				<input type="checkbox"/>	<input type="checkbox"/>
	Eicosenoic (%)		≤ 0.40	≤ 0.40				<input type="checkbox"/>	<input type="checkbox"/>
	Behenic (%)		≤ 0.20	≤ 0.20				<input type="checkbox"/>	<input type="checkbox"/>
	Lignoceric (%)		≤ 0.20	≤ 0.20				<input type="checkbox"/>	<input type="checkbox"/>
	Total transoleic isomers (%)		≤ 0.05	≤ 0.05				<input type="checkbox"/>	<input type="checkbox"/>
	Total translinoleic + translinolenic isomers (%)		≤ 0.05	≤ 0.05				<input type="checkbox"/>	<input type="checkbox"/>
Sterols composition	Cholesterol (%)	Annex V	≤ 0.5	≤ 0.5				<input type="checkbox"/>	<input type="checkbox"/>
	Brassicasterol (%)		≤ 0.1	≤ 0.1				<input type="checkbox"/>	<input type="checkbox"/>
	Campesterol (%)		≤ 4.0	≤ 4.0				<input type="checkbox"/>	<input type="checkbox"/>
	Stigmasterol(%)		< Campesterol	< Campesterol				<input type="checkbox"/>	<input type="checkbox"/>
	App B-sitosterol (%)		≥ 93.0	≥ 93.0				<input type="checkbox"/>	<input type="checkbox"/>
	Delta-7-stigmastenol (%)		≤ 0.5	≤ 0.5				<input type="checkbox"/>	<input type="checkbox"/>
	Total sterols (mg/kg)		≥ 1 000	≥ 1 000				<input type="checkbox"/>	<input type="checkbox"/>

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								Pass	Fail
	Erythrodiol and uvaol (%)		≤ 4.5	≤ 4.5				<input type="checkbox"/>	<input type="checkbox"/>
Additional tests if required	Aliphatic alcohol content mg/kg	Annex XIX						<input type="checkbox"/>	<input type="checkbox"/>
	Olive oil residue %	Annex XV						<input type="checkbox"/>	<input type="checkbox"/>
	Iodine value	Annex XVI						<input type="checkbox"/>	<input type="checkbox"/>

### Conclusions

Oil type declared by trader: 'Extra Virgin Olive Oil'

The conformity check is compliant/non-compliant

Compliant  Non-compliant

If not compliant, please explain why

Signed

Laboratory Stamp

Name (BLOCK CAPITALS)

Date

\* For full details please refer to Commission Regulation (EEC) 2568/91 as amended.

\*\* Attach taste panel results if 'fail'. Organoleptic analysis not applicable for 'chemical' counter-analysis.