

## 4.0 COMMODITY STANDARDS

**Table 1: Canola Standard**

Commodity: CANOLA		Standard Reference No: CSO 1
Parameter	Specification	Comment/Price Adjustment
<b>Physical &amp; Chemical Parameters</b>		
Description		Canola is defined as seed of the species <i>Brassica napus</i> or <i>Brassica rapa</i> but containing less than 30 micromoles of specified glucosinolates per g of oil-free air-dry solids and not more than 2% erucic acid in the oil component, as a proportion of the total fatty acids content. The specified glucosinolates are any one or a mixture of 3-butenyl, 4-pentenyl, 2-hydroxy-3-butenyl and 2-hydroxy-4-pentenyl glucosinolates.
Accepted Varieties	As per Masterlist	Approved canola varieties as listed in these Standards or on the AOF website.
Oil (%)	42.0 base level	1.5% premium or deduction for each 1% above or below 42%
Free Fatty Acid (%)	1.0 base level	2% deduction for each 1% over the base level, rejectable over 2.5%
Moisture Max (%)	8.0	2% deduction for each 1% over maximum
Test Weight Min (kg/hl)	62.0	Rejectable under this limit
Protein	Unlimited	
Seed Retention	Unlimited	
Germination	Unlimited	
<b>Defective Canola</b> (Maximum % count unless otherwise stated based on a 1,000 seed sample retained above 1.0mm round hole screen)		
Broken or Split (%)	7.0	Includes Insect Damaged. 0.5% deduction for each 1% over the maximum
Heat Damaged (per 1,000 seeds)	1	Assessed on crushed seeds
Mould (per 1,000 seeds)	5	Assessed on whole seeds before crushing
Damaged (%)	3.0	Includes Diseased, Weather Damaged and Otherwise Materially Damaged. Frost Damaged seeds are not included in Damaged (refer Impurities). 0.5% deduction for each 1% over the maximum, rejectable over 10%
Sprouted (%)	5.0	0.5% deduction for each 1% over the maximum
Green (%)	2.0	No penalty up to a maximum of 2%, rejectable over 2% using the ruler method. Alternatively, determine as Chlorophyll, with a maximum of 12ppm and rejectable over.
<b>Contaminants</b> (Maximum count per half litre unless otherwise stated, rejectable over unless deductions are stated as applying)		
Impurities (% wt/wt)	3.0	All foreign material. This includes canola and all other material falling through the 1.0mm round hole screen and Frost Damaged canola seeds. 1% deduction for each 1% of impurities up to 4%, 2% deduction for each 1% of impurities over 4%.
Snails/Stones	1 Snail/Stone above 3.0mm screen / 2.5L	Tolerance of 1 per 2.5 litre sample for any Snails/Stones remaining above a 3.0 mm round hole screen. If one Snail/Stone is found above the screen in the ½ litre sample, then a further four ½ litre samples should be taken. If a Snail/Stone is found in any one of the subsequent samples, the load is to be rejected. For stones a maximum weight of 4.0g applies.
	1 Snail/Stone below 3.0mm screen / 0.5L	Tolerance of 1 Snail/Stone per ½ litre sample, passing through a 3.0 mm round hole screen.
Insects – Large (Live and/or Dead)	10	Includes Rutherglen bugs, ladybirds, grasshoppers, wood bugs, sitona weevils, earwigs, millipedes, vegetable bugs and pea weevil (dead only).
Insects – Small (Live and/or Dead)	100	Includes all species of aphid, all species of mites and stored product insects (dead only).
Ryegrass Ergot (length in cm)	0.5	Maximum length of all pieces aligned end on end.
Sclerotes (% by wt)	0.5	Canola Sclerotes.
Sand/Soil (% by wt)	0.1	
Objectionable Material (entire load)	Nil	Commercially unacceptable material such as, but not limited to, harmful substances including live stored product insects, live pea weevil, glass, metal, specified weed seeds in excess of the limit prescribed in any of the State Stockfeed Regulations lists of permitted weed seeds, chemicals not approved for canola, musty seed and other material imparting an odour to the canola, tainting agents, animal material, fertiliser, sticks/stubble and pickled seed.
<b>Seed Contaminants</b> (maximum tolerance by count per half litre to apply to individual seeds)		
Type A (entire load)	Nil	Alligator Weed, Cape Tulips, Castor Oil Plant, Coriander, Creeping Knapweed, Darling Pea, Dodder, Giant Sensitive Plant, Opium Poppy, Parthenium Weed, Ragweed, Rattlepod, Star Burr, Stinkwort, St. Johns Wort
Type B	1	Burrs ( <i>Xanthium</i> spp.) – all except where otherwise stated, Saffron Thistle, Wild Mignonette
Type C	2	Crow Garlic, Skeleton Weed, Thornapple
Type D	3	Common Heliotrope, Darnel, Hexham Scent, Jute, Mexican Poppy, Mintweed, Nightshade
Type E	65	Sesbania Pea

**Table 2: Non-GM Canola Standard**

Commodity : CANOLA		Standard Reference No: CSO 1-a
Parameter	Specification	Comment/Price Adjustment
<b>Physical &amp; Chemical Parameters</b>		
Description		Canola is defined as seed of the species <i>Brassica napus</i> or <i>Brassica rapa</i> but containing less than 30 micromoles of specified glucosinolates per g of oil-free air-dry solids and not more than 2% erucic acid in the oil component, as a proportion of the total fatty acids content. The specified glucosinolates are any one or a mixture of 3-butenyl, 4-pentenyl, 2-hydroxy-3-butenyl and 2-hydroxy-4-pentenyl glucosinolates. The low level presence of up to 0.9% of GM events approved by the Australian Government Office of the Gene Technology Regulator is permitted.
Accepted Varieties	As per Masterlist	Approved canola varieties as listed in these Standards or on the AOF website.
Oil (%)	42.0 base level	1.5% premium or deduction for each 1% above or below 42%
Free Fatty Acid (%)	1.0 base level	2% deduction for each 1% over the base level, rejectable over 2.5%
Moisture Max (%)	8.0	2% deduction for each 1% over maximum
Test Weight Min (kg/hl)	62.0	Rejectable under this limit
Protein	Unlimited	
Seed Retention	Unlimited	
Germination	Unlimited	
<b>Defective Canola</b> (Maximum % count unless otherwise stated based on a 1,000 seed sample retained above 1.0mm round hole screen)		
Broken or Split (%)	7.0	Includes Insect Damaged. 0.5% deduction for each 1% over the maximum
Heat Damaged (per 1,000 seeds)	1	Assessed on crushed seeds
Mould (per 1,000 seeds)	5	Assessed on whole seeds before crushing
Damaged (%)	3.0	Includes Diseased, Weather Damaged and Otherwise Materially Damaged. Frost Damaged seeds are not included in Damaged (refer Impurities). 0.5% deduction for each 1% over the maximum, rejectable over 10%
Sprouted (%)	5.0	0.5% deduction for each 1% over the maximum
Green (%)	2.0	No penalty up to a maximum of 2%, rejectable over 2% using the ruler method. Alternatively, determine as Chlorophyll, with a maximum of 12ppm and rejectable over.
<b>Contaminants</b> (Maximum count per half litre unless otherwise stated, rejectable over unless deductions are stated as applying)		
Impurities (% wt/wt)	3.0	All foreign material. This includes canola and all other material falling through the 1.0mm round hole screen and Frost Damaged canola seeds. 1% deduction for each 1% of impurities up to 4%, 2% deduction for each 1% of impurities over 4%.
Snails/Stones	1 Snail/Stone above 3.0mm screen/2.5L  1 Snail/Stone below 3.0mm screen/0.5L	Tolerance of 1 per 2.5 litre sample for any Snails/Stones remaining above a 3.0 mm round hole screen. If one Snail/Stone is found above the screen in the ½ litre sample, then a further four ½ litre samples should be taken. If a Snail/Stone is found in any one of the subsequent samples, the load is to be rejected. For stones a maximum weight of 4.0g applies.  Tolerance of 1 Snail/Stone per ½ litre sample, passing through a 3.0 mm round hole screen.
Insects – Large (Live and/or Dead)	10	Includes Rutherglen bugs, ladybirds, grasshoppers, wood bugs, sitona weevils, earwigs, millipedes, vegetable bugs and pea weevil (dead only).
Insects – Small (Live and/or Dead)	100	Includes all species of aphid, all species of mites and stored product insects (dead only).
Ryegrass Ergot (length in cm)	0.5	Maximum length of all pieces aligned end on end.
Sclerotes (% by wt)	0.5	Canola Sclerotes.
Sand/Soil (% by wt)	0.1	
Objectionable Material (entire load)	Nil	Commercially unacceptable material such as, but not limited to, harmful substances including live stored product insects, live pea weevil, glass, metal, specified weed seeds in excess of the limit prescribed in any of the State Stockfeed Regulations lists of permitted weed seeds, chemicals not approved for canola, musty seed and other material imparting an odour to the canola, tainting agents, animal material, fertiliser, sticks/stubble and pickled seed.
<b>Seed Contaminants</b> (maximum tolerance by count per half litre to apply to individual seeds)		
Type A (entire load)	Nil	Alligator Weed, Cape Tulips, Castor Oil Plant, Coriander, Creeping Knapweed, Darling Pea, Dodder, Giant Sensitive Plant, Opium Poppy, Parthenium Weed, Ragweed, Rattlepod, Star Burr, Stinkwort, St. Johns Wort
Type B	1	Burrs ( <i>Xanthium</i> spp.) – all except where otherwise stated, Saffron Thistle, Wild Mignonette
Type C	2	Crow Garlic, Skeleton Weed, Thornapple
Type D	3	Common Heliotrope, Darnel, Hexham Scent, Jute, Mexican Poppy, Mintweed, Nightshade
Type E	65	Sesbania Pea