

Finished Product Specification

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|------------------|-------------------------|
| Product | BCAA 4:1:1 VEGGIE/VEGAN |
| CCL Product Code | P31259 |
| Product Type | Powder Blend |

Product Details

| | |
|------------|--|
| Appearance | Free flowing white to off white powder |
| Flavour | Unflavoured |
| Sweetener | Unsweetened |

Microbiological Limits

| | |
|------------------------|---------------------|
| Total Viable Count | Max 100,000cfu/g |
| Yeasts & Moulds | Max 1,000cfug |
| E. Coli | <10cfu/g |
| Salmonella | Not detected in 25g |
| Listeria monocytogenes | <10cfu/g |

Heavy Metal Limits

| | |
|--------------|------------|
| Lead (Pb) | Max 3ppm |
| Cadmium (Cd) | Max 1ppm |
| Mercury (Hg) | Max 0.1ppm |
| Arsenic (As) | Max 1ppm |

Additional Information

| | |
|----------------|---|
| Irradiation | Non-Irradiated |
| GMO | This is to certify that this product is not manufactured from GM raw materials and is therefore not subject to labelling under current regulations. |
| TSE/BSE Status | TSE/BSE Free |
| Organic | Non-Organic |

Shelf Life and Storage

| | |
|--------------------|--|
| Storage Conditions | Store below 25°C and protect from heat and light |
| Shelf Life | 24 Months from date of manufacture when stored correctly |



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| Suggested Warnings /Cautions | |
|------------------------------|---|
| Food Supplement | Food supplements should be stored out of the reach of young children |
| Food Supplement | Food supplements should not be used as a substitute for a varied diet |
| Food Supplement | Do not exceed the recommended daily dose |



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Active Ingredients

| Product Code & Name | g/100g | Primary Ingredient Source | Purity/Composition |
|---------------------|--------|---------------------------|--------------------|
| P12040 L-Leucine | 66.6g | Fermented: Glucose (Corn) | 100% L-Leucine |
| P0905 L-Isoleucine | 16.7g | Fermented: Glucose (Corn) | 100% L-Isoleucine |
| P2202 L-Valine | 16.7g | Fermented: Glucose (Corn) | 100% L-Valine |



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| Allergens | Contains (as ingredient) YES/NO | Listed Item on same manufacturing line as finished product YES/NO | Raw material cross-contact risk and source? |
|---|---------------------------------|---|---|
| Peanuts and Peanut Derivatives (including possible cross contamination) | NO | NO | NO |
| Nut and Nut Derivatives <i>Almond (Amygdalus communis L.), Hazelnut (Corylus avellana), Walnut (Juglans regia), Cashew (Anacardium occidentale), Pecan nut (Carya illinoensis (Wangenh.) K. Koch), Brazil nut (Bertholletia excelsa), Pistachio nut (Pistacia vera), Macadamia nut and Queensland nut (Macadamia ternifolia)</i> | NO | NO | NO |
| Sesame Seeds and Sesame Seed Derivatives | NO | NO | NO |
| Milk and Milk Derivatives (including lactose) | NO | NO | NO |
| Egg and Egg Derivatives | NO | NO | NO |
| Cereals and Derivatives containing OR POTENTIALLY CONTAMINATED WITH Gluten | NO | NO | NO |
| Soya and Soya Derivatives | NO | NO | NO |
| Lupin and Lupin Derivatives | NO | NO | NO |
| Mustard and Mustard Derivatives | NO | NO | NO |
| Celery or Celery Derivatives (including Celeriac) | NO | NO | NO |
| Fish and Fish Derivatives | NO | NO | NO |
| Molluscs and their Derivatives | NO | NO | NO |
| Crustaceans and their Derivatives | NO | NO | NO |
| Sulphur Dioxide and Sulphites (E220, E228) at levels > 10mg/kg or 10mg/litre | NO | NO | NO |

A - Risk of contact at source during harvesting and may contain traces

B - Raw material handled on same line as other allergenic materials and may contain traces

C - Raw material handled on same line as other allergenic materials however formal control programme in place to minimise cross contact risk

D - Exempt from labelling according to EU regulations

The allergen information is supplied by the manufacturer, we have not tested for each individual allergen to ensure they are not present. The information given is based on a documented risk assessment and is accurate to the best of our knowledge. If you intend to make a voluntary "free from" claim on your pack, additional testing may need to be carried out. For technical and labelling guidance you should always speak to the competent authority for the market or member state in which the final products are placed.

| Dietary Requirements | Source/Details |
|----------------------|----------------|
| Vegetarian Suitable | YES |
| Vegan Suitable | YES |
| Kosher | Not Certified |
| Halal | Not Certified |



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Change History

| Version | Change | Date |
|---------|--|------------|
| 1 | First Issue | N/A |
| 2 | Format update | N/A |
| 3 | Replace Valine P2202 with P11120 | N/A |
| 4 | Updated format Updated microbiology limits Updated heavy metal limits Updated GMO status Ingredient changed from P11120 to P2202 | 11/05/2021 |

Document Approval

| Originator Job Title | Product Compliance Specialist | Approver Job Title | Senior Product Compliance and Regulatory Affairs Nutritionist |
|--|-------------------------------|--|---|
|  <small>x 12/05/2021 14:24</small> | |  <small>x 12/05/2021 15:25</small> | |

Customer Approval

Cambridge Commodities Ltd (CCL) advise our customers on technological matters to the best of our knowledge. CCL hold no responsibility for the suitability of product for the proposed purpose. It is the responsibility of the brand owner to ensure that all marketing communications are compliant within local legislation and that the appropriate registrations have been obtained. The brand owner is responsible for choosing the legal name of the product and ensuring that the composition meets the legal requirements for the chosen legal category assigned to the product. Energy, protein conversion calculations and related values other than purity and microbial data are for information purposes only. For technical and labelling guidance please speak to the competent authority for the market or member state in which the final products are placed.

The allergen information is supplied by the manufacturer, we have not tested for each individual allergen to ensure they are not present. The information given is based on a documented risk assessment and is accurate to the best of our knowledge. If you intend to make a voluntary "free from" claim on your pack, additional testing may need to be carried out.

Shelf life has been based on the information provided by the suppliers of the individual ingredients. CCL cannot be held responsible for interactions between ingredient combinations as all formulations are unique. We recommend our customers carry out stability trials to assess organoleptic properties of the product and formulation stability under the envisaged packaging/processing/storage conditions. The stability of the ingredients and nutrients within a formulation is complex and are unique to each individual formulation; CCL recommend our customers perform trials to assess required overages based on the conditions the product is expected to be stored in.

CCL recommend that trials are carried out to ensure suitability of the chosen packaging/processing/storage conditions. Some ingredients can be hygroscopic in nature so the properties of ingredients should be carefully considered when choosing packaging material. Cambridge Commodities recommend that the product is suitably



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evaluated prior to commercial usage. Our information and recommendations are without obligation. By signing this agreement, you are confirming that you have read this finished product specification and understand the composition of the product. It is understood that by signing this agreement you understand that the formulation meets expectations for your envisaged purpose.

| | | |
|----------------|--|-------------------|
| Company Name | | |
| Name of Signer | | |
| Job Title | | |
| Date | | Please sign above |



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