



# NUTRITIONAL DIVISION

## Ester C® Calcium Ascorbate –Threonate : Change on specification (new metabolite)

In order to protect the unique advantages of Ester-C Calcium Ascorbate-Threonate, the manufacturer, the Ester-C Company, has recently renewed their patents on an improved Ester-C® grade standardised also on **Furanone**, one of the metabolites along with **Threonate**, on which research has shown enhanced retention of Vitamin C (from Ester-C) in white blood cells.

This new specification is what is currently being sold with great success as a finished product in the USA. We have been advised by The Ester C Company that it is now Europe's turn to switch to this improved version.

The following are the changes on the specification which we would like to bring to your attention:

| Items on Specification | Current Granular and Fine Grades | New Granular and Fine Grades |
|------------------------|----------------------------------|------------------------------|
| Vitamin C              | 78.9 ± 1.6%                      | 74.2% -79%                   |
| Threonic Acid          | NLT 0.90%                        | 0.85% - 1.45%                |
| <b>Furanone</b>        | <b>Not tested</b>                | <b>0.030% - 0.060%</b>       |
| Calcium                | 9.24 ± 0.70%                     | 8.5% -10.31%                 |
| Shelf life             | 5 years                          | 2 years                      |

Whilst the specification has changed, finished products on the market will not require any label change. Also, Ester-C® remains listed on the Annex II for use in foods supplements, as it was before and without any changes.

Free of charge samples of both, granular and powder are available on request and we strongly encourage you to test the raw material. Please contact your sales account manager to arrange this.

Furthermore, you can now make use of the following research, which has been carried out on this improved grade.

- Moyad, M. A., M. A. Combs, A. S. Vrablic, J. Velasquez, B. Turner and S. Bernal (2008). "**Vitamin C metabolites, independent of smoking status, significantly enhance leukocyte, but not plasma ascorbate concentrations.**" Adv Ther 25(10): 995-1009.
- Moyad,, M. A, M.A Combs, (2007 & 2008) "**Vitamin C Dietary Supplements: An Objective Review of the Clinical Evidence**" Part I, II and III.

Full clinical and research studies are available from us on request.

There will be a transitional period which will allow existing customers to be able to buy our current grade while testing the new specification. We will start selling only the new material to all customers from January 2016.

Please do not hesitate to contact us should you require further information.

Contact details for support:

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