



AJINOMOTO DO BRASIL IND. E COM. DE ALIMENTOS LTDA.

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### QUALITY ASSURANCE SPECIFICATIONS

**Product Name:** PRODEW 500

**PCPC INCI Name:** Sodium PCA, Sodium Lactate, Arginine, Aspartic Acid, PCA, Glycine, Alanine, Serine, Valine, Proline, Threonine, Isoleucine, Histidine, Phenylalanine, Water

**Chemical Name:** Sodium L-Pyrrolidonecarboxylate, Sodium Lactate, L-Arginine, L-Aspartic Acid, L-Pyrrolidonecarboxylic Acid, Glycine, L-Alanine, L-Serine, L-Valine, L-Proline, L-Threonine, L-Isoleucine, L-Histidine, L-Phenylalanine, Water

**Validity:** 3 years after manufacturing date

#### **Specification**

ITEM	LIMIT	TEST
(1) Description	Colorless to pale yellow liquid, a slightly characteristic odor	JSQI [General Notices 27]
(2) Identification		
Amino Acids	Passed test	*1
Lactate	Passed test	*2
(3) pH	4.0 ~ 6.0	JSQI [Neat, 25°C]
(4) Heavy Metals (Pb)	NMT 20ppm	JSQI [2.0g, Method-3]
(5) Arsenic (As <sub>2</sub> O <sub>3</sub> )	NMT 2ppm	JSQI [2.0g, Method-3]
(6) Solid Content	47.0 ~ 53.0%	*3
(7) Nitrogen Content	5.6 ~ 5.9%	JSQI [0.5g, Method-2]
(8) Total Viable Counts	NMT 100cfu/mL	10mL, MF-Method

JSQI: The Japanese Standards of Quasi-Drug Ingredients

First Issue: July 5<sup>th</sup>, 2013  
Rev. 02 - October 2<sup>nd</sup>, 2014

## Test Method

### \*1: Amino Acids

To 5ml of a solution of 'PRODEW 500' (1→200) add 1mL of ninhydrin TS (1→50), heat for 3minutes:

a blue-purple to dark-purple color develops.

### \*2: Lactate

To 20ml of a solution of 'PRODEW 500' (1→20) acidified with sulfuric acid (1→20) 5ml add potassium permanganate TS (1→50) 5ml, and heat (90°C): the odor of acetaldehyde is perceptible.

### \*3: Solid Content

Solid Content(%) = 100 – Loss on Drying(%)

Loss on Drying : JSQI [2.0g, (110°C, 3hrs.) + (110°C, 2hrs., vacuum drying)]

### \*4: Total Viable Counts

Take 10mL of 'PRODEW 500', filter with membrane filter (0.45µm). Wash membrane by filtering through it three or more times with Buffered Sodium Chloride-Peptone Solution. The volume of the washings to be used is approximately 100mL each. Put the membrane filter on the surface of a plate of Soybean-Casein Digest Agar. After incubation of the plate for 5 days, between 30° C to 35° C, count the number of colonies that are formed.

Please contact AJINOMOTO group, when you have questions about the trademark registration.

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