

# Product Datasheet

## Glutamine Assay Kit (Colorimetric) KA1627

Unit Size: 1 Kit

Store at -20C.

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

**Publications: 10**

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/KA1627](http://www.novusbio.com/KA1627)

Updated 10/23/2024 v.20.1

**Earn rewards for product  
reviews and publications.**

Submit a publication at [www.novusbio.com/publications](http://www.novusbio.com/publications)

Submit a review at [www.novusbio.com/reviews/destination/KA1627](http://www.novusbio.com/reviews/destination/KA1627)



**KA1627****Glutamine Assay Kit (Colorimetric)****Product Information**

<b>Unit Size</b>	1 Kit
<b>Concentration</b>	Concentration is not relevant for this product. Please see the protocols for proper use of this product.
<b>Storage</b>	Store at -20C.

**Product Description**

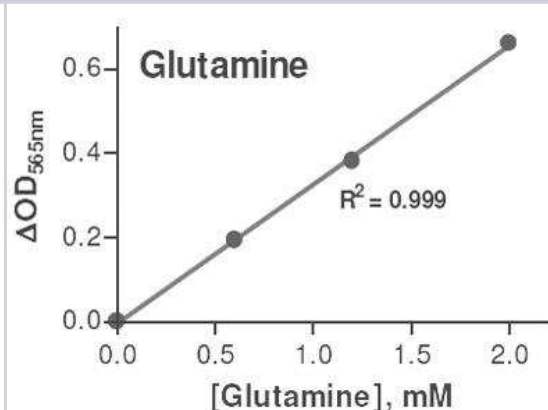
<b>Description</b>	Quality control test: Standard Curve Glutamine Assay Kit is a quantitative colorimetric determination of glutamine at 565 nm.
<b>Species</b>	Human, Mouse
<b>Kit Components</b>	Assay Buffer, NAD Solution, Enzyme A, MTT Solution, Enzyme B, Stop Reagent, Standard (100 mM Glutamine)
<b>Notes</b>	This product is produced by and distributed for Abnova, a company based in Taiwan.
<b>Standard Curve Range</b>	0.023 to 2 mM
<b>Sensitivity</b>	23 uM
<b>Assay Type</b>	Colorimetric
<b>Suitable Sample Type</b>	Cell Culture, Plasma, Serum, Tissue, Urine
<b>Sample Volume</b>	20 uL

**Product Application Details**

<b>Applications</b>	Functional, Quantification
<b>Recommended Dilutions</b>	Functional, Quantification

**Images**

Glutamine Assay Kit (Colorimetric) [KA1627] - The standard curve is for the purpose of illustration only and should not be used to calculate unknowns. A standard curve should be generated each time the assay is performed.



## Publications

Lydia R, Haoxin Z, Yuzhu W et al. ERK is a critical metabolic hub for immunosuppressive function in macrophages. *Nat Immunol.* 2022-02-28 [PMID: 35228694]

Zhong-Xing B, Jia-Qi Z, Gui-Ge W et al. Silencing of circ\_0000517 suppresses proliferation, glycolysis, and glutamine decomposition of non-small cell lung cancer by modulating miR-330-5p/YY1 signal pathway. *Kaohsiung J Med Sci.* 2021-08-18 [PMID: 34405943]

Yang G, Xiaomin C, Linling Z et al. PPP1CA/YAP/GS/Gln/mTORC1 pathway activates retinal M $\mu$ ller cells during diabetic retinopathy. *Exp Eye Res.* 2021-07-17 [PMID: 34280391]

Sejeong S, Gwen B, Laura W et al. ERK2 Mediates Metabolic Stress Response to Regulate Cell Fate. *Mol Cell.* 2015-07-16 [PMID: 26190261]

F Jaudon, M Chiacchiar, M Albini, S Ferroni, F Benfenati, F Cesca Kidins220/ARMS controls astrocyte calcium signaling and neuron-astrocyte communication *Cell Death Differ.*, 2019-10-17;27(5):1505-1519. 2019-10-17 [PMID: 31624352]

Qiyin Z, Wenyu L, Chaoqun W et al. Neddylation inhibition induces glutamine uptake and metabolism by targeting CRL3 SPOP E3 ligase in cancer cells. *Nat Commun.* 2022-05-31 [PMID: 35641493]

Monika P, Dawid M, M U et al. Inhibition of the L-glutamine transporter ASCT2 sensitizes plasma cell myeloma cells to proteasome inhibitors. *Cancer Lett.* 2021-03-10 [PMID: 33713737]

Zhao S, Wang JM, Yan J et al. BAG3 promotes autophagy and glutaminolysis via stabilizing glutaminase. *Cell Death Dis.* 2019-03-25 [PMID: 30910998]

Miller RA, Shi Y, Lu W et al. Targeting hepatic glutaminase activity to ameliorate hyperglycemia. *Nat Med* 2018-03-26 [PMID: 29578539]

Cardaci S, Rizza S, Filomeni G et al. Glutamine Deprivation Enhances Antitumor Activity of 3-Bromopyruvate through the Stabilization of Monocarboxylate Transporter-1. *Cancer Res.* 2012-08-22 [PMID: 22773663]





### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

[www.novusbio.com](http://www.novusbio.com)  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Kits are guaranteed for 6 months from date of receipt.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

Earn gift cards/discounts by submitting a review: [www.novusbio.com/reviews/submit/KA1627](http://www.novusbio.com/reviews/submit/KA1627)

Earn gift cards/discounts by submitting a publication using this product:  
[www.novusbio.com/publications](http://www.novusbio.com/publications)

