



碧云天生物技术/Beyotime Biotechnology  
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## Aspartate Transaminase (Crude Enzyme)

产品编号	产品名称	包装
P3636-100ml	Aspartate Transaminase (Crude Enzyme)	100ml
P3636-1L	Aspartate Transaminase (Crude Enzyme)	1L

### 产品简介：

- Aspartate Transaminase, 中文名为天冬氨酸转氨酶, 催化酸性氨基酸和 $\alpha$ -酮酸之间的可逆反应, 是转氨反应的高效催化剂。常用于医学临床上肝功能检查的指标, 用来判断肝脏是否受到损害。本产品为大肠杆菌表达的天冬氨酸转氨酶, 并经简单纯化获得的可以确保达到一定酶活力的粗酶液。
- 由于本产品需新鲜制备, 确认订购后约6个工作日才可以发货。个别情况首次制备出现问题, 发货时间会顺延。
- 本产品可以提供十公斤、百公斤乃至吨级的粗酶液, 如有需求请联系碧云天。
- (AST) or aspartate aminotransferase, also known as AspAT/ASAT/AAT or serum glutamic oxaloacetic transaminase(SGOT), is a pyridoxal phosphate (PLP)-dependent transaminase enzyme (EC 2.6.1.1) that was first described by Arthur Karmen and colleagues in 1954. AST catalyzes the reversible transfer of an  $\alpha$ -amino group between aspartate and glutamate and, as such, is an important enzyme in amino acid metabolism. AST is found in the liver, heart, skeletal muscle, kidneys, brain, and red blood cells. Serum AST level, serum ALT (alanine transaminase) level, and their ratio (AST/ALT ratio) are commonly measured clinically as biomarkers for liver health. The tests are part of blood panels. This product with the indicated enzyme activity was briefly purified from engineered *E.coli*.
- 产品详细信息见下表：

About this product	
Name	Aspartate Transaminase (Crude Enzyme); 天冬氨酸转氨酶(粗酶液)
Application	催化酸性氨基酸和 $\alpha$ -酮酸之间的可逆反应
Appearance	Clear to translucent yellow solution
Enzyme activity	Undetermined
About this enzyme	
Name	Aspartate Transaminase; 天冬氨酸转氨酶
CAS Number	9000-97-9
EC Number	2.6.1.1
Enzymatic Reaction	L-aspartate + 2-oxoglutarate = oxaloacetate + L-glutamate
Synonyms	glutamic-oxaloacetic transaminase; glutamic-aspartic transaminase; transaminase A; AAT; AspT; 2-oxoglutarate-glutamate aminotransferase; aspartate $\alpha$ -ketoglutarate transaminase; aspartate aminotransferase; aspartate-2-oxoglutarate transaminase; aspartic acid aminotransferase; aspartic aminotransferase; aspartyl aminotransferase; AST; glutamate-oxalacetate aminotransferase; glutamate-oxalate transaminase; glutamic-aspartic aminotransferase; glutamic-oxalacetic transaminase; glutamic oxalic transaminase; GOT (enzyme) [ambiguous]; L-; L-aspartate- $\alpha$ -ketoglutarate transaminase; L-aspartate-2-ketoglutarate aminotransferase; L-aspartate-2-oxoglutarate aminotransferase; L-aspartate-2-oxoglutarate-transaminase; L-aspartic aminotransferase; oxaloacetate- aspartate aminotransferase; oxaloacetate transferase; aspartate:2-oxoglutarate aminotransferase; glutamate oxaloacetate transaminase
Systematic name	L-aspartate:2-oxoglutarate aminotransferase
Cofactor(s)	-
Application	synthesis; medicine; biotechnology

### 包装清单：

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P3636-100ml	Aspartate Transaminase (Crude Enzyme)	100ml
P3636-1L	Aspartate Transaminase (Crude Enzyme)	1L
—	说明书	1份

### 保存条件:

-20°C或更低温度保存, 至少1个月有效。

### 注意事项:

- 由于本产品需新鲜制备, 在您确认订购后约6个工作日才能发货。个别情况首次制备出现问题, 发货时间会顺延。
- 粗酶液的每次冻融均可能会引起部分失活, 所以收到酶液后请根据需要进行分装, 并置于-20°C或更低温度保存。
- 随着保存时间的延长, 酶活力会有一定程度的下降, 收到产品后应尽快使用。
- 本产品在生产 and 保存的过程中可能会有混浊或沉淀产生, 融化后混匀即可, 不影响正常使用。
- 本产品仅限于专业人员的科学研究用, 不得用于临床诊断或治疗, 不得用于食品或药品, 不得存放于普通住宅内。
- 为了您的安全和健康, 请穿实验服并戴一次性手套操作。

### 使用说明:

1. 收到产品后请立即使用或按照说明书推荐的条件保存。随着保存时间的延长, 酶活力会有一定程度的下降。
2. 具体的最佳工作条件请自行参考相关文献, 或者通过实验进行摸索和优化。

### 相关产品:

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