

PG1502 Detection Kit

Assessing the Carbamazepine induced Stevens-Johnson Syndrome/Toxic Epidermal Necrolysis

Carbamazepine (CBZ) is among the most commonly used antiepileptic drug and pain management drug. However, serious and sometimes life-threatening reactions, including Stevens-Johnson Syndrome (SJS)/Toxic Epidermal Necrolysis (TEN), have been reported with CBZ. The risk of SJS and TEN exists in all patients.

Studies[1,2] have shown that the HLA-B*1502 found in Chinese Han and Thai population has strong association with SJS and TEN. Thus, in 2007 the FDA released an announcement[3] related to this subject and required CBZ prescription to include recommendation of genetic test for patients of Asian descent.

Key Features

- More than 600 DNA samples tested & validated by DNA sequencing
-99+% sensitivity & 98% ca. specificity
- From genomic DNA to results in about 2 hours
- Mix & Match design
- Strong patent positions in US, Taiwan, Singapore, Australia

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Global leader of pharmacogenetics tests

HLA-B*1502 Typing

Genomic DNA	Sample #	DNA Sequencing		RT-PCR		
		Positive (+)	Negative (-)	Positive (+)	Negative (-)	False +
Ethnicity of Healthy Volunteers						
Taiwan	100	9	91	9	91	-
Thailand	51	7	44	7	44	-
Indonesia	51	17	34	21	30	4
Philippine	49	4	45	9	40	5
India	46	2	44	2	44	-
Vietnam	49	15	34	15	34	-
Han Chinese	170	15	155	15	155	-
Caucasian	100	-	100	-	100	-
Total	616	69	547	78	538	9

HLA-B*1502 RT-PCR based detection

- Compatible with most Real-Time PCR systems
 - SYBR Green dye
 - CE-IVD Certified
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- PCR Master Mix including SYBR GREEN (2x conc.)
 - HLA-B*1502 Detection Mix
 - Internal Control Detection Mix
 - Positive Control Template

Recommended Sample Requirement:

- OD260/280 should be between 1.7 and 2.0
- 25-100 ng DNA per sample

Product Name	Format	Size (test/kit)	Cat.No.
PG1502 Detection Kit	BOX	10	PG-1502C-024
PG1502 Detection Kit	BOX	20	PG-1502C-048
PG1502 Detection Kit	BOX	40	PG-1502C-096

References:

- 1) Chung, WH, et al, Medical genetics: a marker for Stevens-Johnson syndrome. (2004) Nature 428:486
- 2) Lochareonkul, C, et al, Carbamazepine and phenytoin induced Stevens-Johnson syndrome is associated with HLA-B* 1502 allele in Thai population. (2008) Epilepsia:1-5, 2008
- 3) FDA News released in Dec. 12, 2007 Carbamazepine Prescribing Information to Include Recommendation of Genetic Test for Patients with Asian Ancestry
- 4) "Agilent" and "Agilent 2100 BioAnalyzer" are properties of Agilent Technologies

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