Table 1

Name	xUnit	Fixtures	Group fixtures	Generators	Mocks	Exceptions	Macros	Templates	Grouping	Source
AerynNo		Yes	Yes	No	No	Yes	Yes	Yes	Yes	[39]
API Sanity Checker	Yes	Yes (spectypes)	Yes (spectypes)	Yes						
ATFYes						Yes	Yes	Yes	Yes	
Bandit	No (describe/it)	Yes (describe)	Yes (Nested describe)	No	No	Yes	Yes	No	Yes (Nested describe)	[40]
Boost Test Library	Yes[41]	Yes[42]	Yes[43]	Yes	With additional library"Turtle Mocks framework"[44]	Yes	User decision	Yes	Suites	
QA Systems Cantata	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
CATCH	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	
CATCH-VC6	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	
cfixYes		Yes	No	No	No	Yes	Yes	No		[13]
CputYes		Yes	Yes	Yes		Yes	Yes	No	Suites	[45]
CppTest		Yes						Yes	Suites	[46]
CppUnit	Yes	Yes	Yes	No	No	Yes	Yes	No	Suites	
CppUTest	Yes	Yes	Yes	No	Yes	No	Yes	No	Suites	
CppUnitLite	Yes			No	No	No	Yes	No	Suites	
CPUnit	Yes	Yes		No	No	Yes	Yes	Yes	Yes	[47]
crpcutNo		Yes		No	No		Yes	Yes	Suites within Suites	[48]
CUTE	Yes	Yes	No	No	Yes	Yes			Suites	[49]
cuteeNo		No	No	Yes						
CxxTest	Yes	Yes	Yes	No	Yes*	Optional	Yes	No	Suites	[51]
Embunit	No				No	Yes				[20]
Exercisix	No	No	No	No	No	Yes	Yes	Yes	Executables	
FCTX	Yes	Yes	Yes	No	No	No	Yes	No	Yes	[21]
Fructose	No	Yes	No	Yes	No	Yes	Yes	Yes	No	
Google C++ Mocking Framework					Yes	No	Yes	Yes		
Google Test	Yes	Yes			Yes	Yes	Yes	Yes		
Hestia	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Suites	
Igloo		Yes (Contexts)	No	No	No	Yes	Yes	Yes	Yes (nested contexts)	[53]
lest	No	No	No	No	No	Yes	Yes	Yes	No	
liblittletest	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	[54]
libunittest	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	[55]
Typemock Isolator++	Yes				Yes		Yes	Yes		
Mockator					Yes	No	Yes	Yes		

Table 2

Name	xUnit	Fixtures	Group fixtures	Generators	Mocks	Exceptions	Macros	Templates	Grouping	Source
mock++/mockcpp	Yes	Yes		No	Yes	Yes	Yes	Yes	Suites	
mockitopp					Yes					
mockpp	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Suites	[56]
NanoCppUnit	No	Yes	Yes	No	No	No	Yes	Yes	Suites	
NullUnit	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Suites	
OAKUT	No	No	Yes	Yes (XML)	No	Yes	Yes	Yes	XML	[57]
Opmock	Yes	Yes	Yes	Yes	Yes	No	Yes	No	Yes	
Parasoft C/C++test	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
QtTest	Yes	Yes	No	No	No	No	No	No		
QuickTest	No	No	No	No	No	Yes	Yes	Yes	No	[58]
SafetyNet	Yes	Yes	No	Yes	Yes	Yes	Yes	No	No	[59]
ShortCUT	No								Yes	
STRIDE	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	[60]
Symbian OS Unit	Yes									[61]
TBrun										[62]
Tessy										
TEST-DOG	Yes	Yes	Yes	Yes	No	Yes	Yes	No	Suites	
Test soon	No	Yes	Yes	Yes	No	Auto-detect	Yes	Yes	Macro (namespaces)	[63]
Testwell CTA++	Yes	No	No	Yes	No	Yes	Yes	Yes		
tpunit++	Yes	Yes		No	No	Optional	Yes	Yes		
TUTNo		No	Yes	No	No	Yes	Yes	Yes	Templates	[64]
Unit++										[65]
unit.hpp										[66]
UnitTest++	No	Yes	Yes		No	Yes	Yes	Yes	Suites	[67]
upp11	Yes	Yes	No	No	No	Yes	Yes	Yes	Yes	[68]
UquoniTest	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	
VectorCAST/C++	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	[36]
Visual Assert	Yes	Yes	No	No	No	Yes	Yes	No		[37]
WinUnit										[69]
xTests						Yes	Yes			[38]
xUnit++	Yes	Yes	Yes	Yes		Yes	Yes (Test setup only)	Yes	Yes (Suites and Attributes)	
Yaktest										[71]