

Ontology-based Expert System for a Generic Drug Production of Pharmaceutical Dosage Forms

Traceability Record

By

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Document History

Document Name	Version	Status	Date	Viewable	Reviewer	Responsible
Documents						
OEGP – Traceability Record v.0.1.docx	0.1 <ul style="list-style-type: none"> • URS and SRS • URS and Class diagram • URS and Sequence diagram • URS and User interface • Class diagram and sequence diagram 	Draft	July 4, 2014	NS, PW, CD	NS, PW	NS, PW
OEGP – Traceability Record v.1.0.docx	1.0 <ul style="list-style-type: none"> • Class diagram and Unit Test Case 	Release	July 7, 2014	NS, PW, CD	NS, PW	NS, PW
OEGP – Traceability Record v.1.0.docx	1.1 <ul style="list-style-type: none"> • Update the record 	Draft	October 21, 2014	NS, PW, CD	NS, PW	NS, PW

1

¹ NS – Narongrit Saisuwan , PW – Panupak Wichaidit , CD - Chartchai Doungsa-ard

Document Name	OEGP-Traceability Record _V.1.1.docx	Owner	NS,PW	Page	ii / 19
Document Type	Traceability Record	Release Date	October 21, 2014	Print Date	October 21, 2014

Table of Contents

Document History	ii
1.1. Acronyms	iv
Traceability Matrix between URS/SRS	1
Traceability Matrix between URS/CD-CI	8
Traceability Matrix between URS/CD-SV	8
Traceability Matrix between URS/SQD-CI	9
Traceability Matrix between URS/SQD-SV	10
Traceability Matrix between URS/UI	11
Traceability Matrix between CD-CI/SQD-CI	12
Traceability Matrix between CD-SV/SQD-SV	13
Traceability Matrix between CD-CI/ UTC-CI	14
Traceability Matrix between CD-SV/ UTC-SV	15

Document Name	OEGP-Traceability Record _V.1.1.docx	Owner	NS,PW	Page	iii / 19
Document Type	Traceability Record	Release Date	October 21, 2014	Print Date	October 21, 2014

1.1. Acronyms

OEGP	Ontology-based Expert System for a Generic Drug Production of Pharmaceutical Dosage Forms
PDPO	Pharmaceutical Dosage Form Production Ontology
URS	User Requirement Specification
SRS	System Requirement Specification
CD	Class diagram
CD-CI	Class diagram For Client Side
CD-SV	Class diagram For Server Side.
SQD	Sequence Diagram
SQD-CI	Sequence Diagram For Client Side
SQD-SV	Sequence Diagram For Server Side
UI	User interface
SDD	Software Design Document
UTC-CI	Unit Test Case For Client Side
UTC-SV	Unit Test Case For Server Side

Document Name	OEGP-Traceability Record _V.1.1.docx	Owner	NS,PW	Page	iv / 19
Document Type	Traceability Record	Release Date	October 21, 2014	Print Date	October 21, 2014

Traceability Matrix between URS/SRS

URS/SRS	URS-01	URS-02	URS-03	URS-04	URS-05	URS-06	URS-07	URS-08	URS-09	URS-10	URS-11	URS-12	URS-13	URS-14	URS-15	URS-16	URS-17	URS-18	URS-19	URS-20	URS-21	URS-22
SRS-01	✓																					
SRS-02	✓	✓																				
SRS-03	✓	✓																				
SRS-04	✓																					
SRS-05	✓																					
SRS-06	✓																					
SRS-07	✓																					
SRS-08	✓	✓																				
SRS-09	✓																					
SRS-10	✓																					
SRS-11	✓	✓																				
SRS-12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SRS-13		✓																				
SRS-14		✓																				
SRS-15		✓																				
SRS-16			✓	✓	✓																	
SRS-17			✓	✓	✓																	
SRS-18			✓																			
SRS-19			✓																			
SRS-20			✓																			
SRS-21			✓	✓	✓																	

Document Name	OEGP-Traceability Record _V.1.1.docx	Owner	NS,PW	Page	1 / 19
Document Type	Traceability Record	Release Date	October 21, 2014	Print Date	October 21, 2014

URS/SRS	URS-01	URS-02	URS-03	URS-04	URS-05	URS-06	URS-07	URS-08	URS-09	URS-10	URS-11	URS-12	URS-13	URS-14	URS-15	URS-16	URS-17	URS-18	URS-19	URS-20	URS-21	URS-22
SRS-22				✓																		
SRS-23				✓																		
SRS-24				✓																		
SRS-25					✓																	
SRS-26					✓																	
SRS-27					✓																	
SRS-28					✓																	
SRS-29						✓																
SRS-30						✓																
SRS-31						✓																
SRS-32						✓		✓														
SRS-33						✓																
SRS-34						✓		✓														
SRS-35						✓																
SRS-36						✓																
SRS-37						✓																
SRS-38						✓																
SRS-39						✓		✓														
SRS-40						✓																
SRS-41						✓		✓														
SRS-42							✓	✓														
SRS-43							✓	✓														
SRS-44							✓															
SRS-45								✓														
SRS-46								✓														

Document Name	OEGP-Traceability Record _V.1.1.docx	Owner	NS,PW	Page	2 / 19
Document Type	Traceability Record	Release Date	October 21, 2014	Print Date	October 21, 2014

URS/SRS	URS-01	URS-02	URS-03	URS-04	URS-05	URS-06	URS-07	URS-08	URS-09	URS-10	URS-11	URS-12	URS-13	URS-14	URS-15	URS-16	URS-17	URS-18	URS-19	URS-20	URS-21	URS-22
SRS-47								✓														
SRS-48								✓														
SRS-49								✓														
SRS-50								✓														
SRS-51									✓													
SRS-52									✓													
SRS-53									✓	✓												
SRS-54									✓	✓												
SRS-55									✓	✓												
SRS-56									✓	✓												
SRS-57									✓	✓												
SRS-58									✓	✓												
SRS-59									✓	✓												
SRS-60									✓	✓												
SRS-61									✓	✓												
SRS-62									✓	✓												
SRS-63									✓	✓												
SRS-64									✓	✓												
SRS-65									✓	✓												
SRS-66									✓													
SRS-67									✓													
SRS-68									✓													
SRS-69									✓													
SRS-70									✓	✓												
SRS-71									✓	✓												

Document Name	OEGP-Traceability Record _V.1.1.docx	Owner	NS,PW	Page	3 / 19
Document Type	Traceability Record	Release Date	October 21, 2014	Print Date	October 21, 2014

URS/SRS	URS-01	URS-02	URS-03	URS-04	URS-05	URS-06	URS-07	URS-08	URS-09	URS-10	URS-11	URS-12	URS-13	URS-14	URS-15	URS-16	URS-17	URS-18	URS-19	URS-20	URS-21	URS-22
SRS-72									✓	✓												
SRS-73									✓	✓												
SRS-74									✓	✓												
SRS-75									✓	✓												
SRS-76									✓	✓												
SRS-77									✓	✓												
SRS-78									✓	✓												
SRS-79									✓	✓												
SRS-80									✓	✓												
SRS-81									✓	✓												
SRS-82									✓	✓												
SRS-83										✓												
SRS-84										✓	✓	✓										
SRS-85										✓	✓	✓										
SRS-86										✓												
SRS-87										✓												
SRS-88										✓												
SRS-89											✓											
SRS-90											✓											
SRS-91											✓											
SRS-92												✓										
SRS-93													✓									
SRS-94													✓									
SRS-95													✓	✓								
SRS-96													✓	✓								

Document Name	OEGP-Traceability Record _V.1.1.docx	Owner	NS,PW	Page	4 / 19
Document Type	Traceability Record	Release Date	October 21, 2014	Print Date	October 21, 2014

URS/SRS	URS-01	URS-02	URS-03	URS-04	URS-05	URS-06	URS-07	URS-08	URS-09	URS-10	URS-11	URS-12	URS-13	URS-14	URS-15	URS-16	URS-17	URS-18	URS-19	URS-20	URS-21	URS-22
SRS-97													✓	✓								
SRS-98													✓	✓								
SRS-99													✓									
SRS-100													✓									
SRS-101													✓									
SRS-102													✓									
SRS-103													✓	✓								
SRS-104													✓	✓								
SRS-105													✓	✓								
SRS-106													✓	✓								
SRS-107														✓								
SRS-108														✓	✓	✓						
SRS-109														✓	✓	✓						
SRS-110														✓								
SRS-111														✓								
SRS-112														✓								
SRS-113															✓							
SRS-114															✓							
SRS-115															✓							
SRS-116																✓						
SRS-117																	✓					
SRS-118																	✓					
SRS-119																	✓	✓				
SRS-120																	✓	✓				

Document Name	OEGP-Traceability Record _V.1.1.docx	Owner	NS,PW	Page	5 / 19
Document Type	Traceability Record	Release Date	October 21, 2014	Print Date	October 21, 2014

URS/SRS	URS-01	URS-02	URS-03	URS-04	URS-05	URS-06	URS-07	URS-08	URS-09	URS-10	URS-11	URS-12	URS-13	URS-14	URS-15	URS-16	URS-17	URS-18	URS-19	URS-20	URS-21	URS-22
SRS-121																	✓	✓				
SRS-122																	✓	✓				
SRS-123																	✓					
SRS-124																	✓					
SRS-125																	✓					
SRS-126																	✓					
SRS-127																	✓	✓				
SRS-128																	✓	✓				
SRS-129																	✓	✓				
SRS-130																	✓	✓				
SRS-131																	✓					
SRS-132																		✓				
SRS-133																		✓	✓	✓		
SRS-134																		✓	✓	✓		
SRS-135																		✓				
SRS-136																		✓				
SRS-137																		✓				
SRS-138																			✓			
SRS-139																			✓			
SRS-140																			✓			
SRS-141																				✓		
SRS-142																					✓	
SRS-143																					✓	
SRS-144																					✓	
SRS-145																					✓	

Document Name	OEGP-Traceability Record _V.1.1.docx	Owner	NS,PW	Page	6 / 19
Document Type	Traceability Record	Release Date	October 21, 2014	Print Date	October 21, 2014

URS/SRS	URS-01	URS-02	URS-03	URS-04	URS-05	URS-06	URS-07	URS-08	URS-09	URS-10	URS-11	URS-12	URS-13	URS-14	URS-15	URS-16	URS-17	URS-18	URS-19	URS-20	URS-21	URS-22
SRS-146																					✓	
SRS-147																					✓	
SRS-148																					✓	
SRS-149																						✓
SRS-150																						✓

Document Name	OEGP-Traceability Record _V.1.1.1.docx	Owner	NS,PW	Page	7 / 19
Document Type	Traceability Record	Release Date	October 21, 2014	Print Date	October 21, 2014

Traceability Matrix between URS/CD-CI

URS/ CD-CI	URS-06	URS-07	URS-09	URS-10	URS-11	URS-12	URS-13	URS-14	URS-15	URS-16	URS-17	URS-18	URS-19	URS-20
CD-CI-01			✓	✓	✓	✓								
CD-CI-02							✓	✓	✓	✓				
CD-CI-03											✓	✓	✓	✓
CD-CI-04	✓													
CD-CI-05		✓												

Traceability Matrix between URS/CD-SV

URS/ CD-SV	URS-06	URS-07	URS-09	URS-10	URS-11	URS-12	URS-13	URS-14	URS-15	URS-16	URS-17	URS-18	URS-19	URS-20
CD-SV-01			✓	✓	✓	✓								
CD-SV-02							✓	✓	✓	✓				
CD-SV-03											✓	✓	✓	✓
CD-SV-04	✓													
CD-SV-05		✓												

Document Name	OEGP-Traceability Record_V.1.1.docx	Owner	NS,PW	Page	8 / 19
Document Type	Traceability Record	Release Date	October 21, 2014	Print Date	October 21, 2014

Traceability Matrix between URS/SQD-CI

URS/ SQD-CI	URS-06	URS-07	URS-09	URS-10	URS-11	URS-12	URS-13	URS-14	URS-15	URS-16	URS-17	URS-18	URS-19	URS-20
SQD-CI-01			✓											
SQD-CI-02				✓										
SQD-CI-03					✓									
SQD-CI-04						✓								
SQD-CI-05							✓							
SQD-CI-06								✓						
SQD-CI-07									✓					
SQD-CI-08										✓				
SQD-CI-09											✓			
SQD-CI-10												✓		
SQD-CI-11													✓	
SQD-CI-12														✓
SQD-CI-13	✓													
SQD-CI-14		✓												

Document Name	OEGP-Traceability Record _V.1.1.docx	Owner	NS,PW	Page	9 / 19
Document Type	Traceability Record	Release Date	October 21, 2014	Print Date	October 21, 2014

Traceability Matrix between URS/SQD-SV

URS/ SQD-SV	URS-06	URS-07	URS-09	URS-10	URS-11	URS-12	URS-13	URS-14	URS-15	URS-16	URS-17	URS-18	URS-19	URS-20
SQD-SV-01			✓											
SQD-SV-02				✓										
SQD-SV-03					✓									
SQD-SV-04						✓								
SQD-SV-05							✓							
SQD-SV-06								✓						
SQD-SV-07									✓					
SQD-SV-08										✓				
SQD-SV-09											✓			
SQD-SV-10												✓		
SQD-SV-11													✓	
SQD-SV-12														✓
SQD-SV-13	✓													
SQD-SV-14		✓												

Document Name	OEGP-Traceability Record _V.1.1.docx	Owner	NS,PW	Page	10 / 19
Document Type	Traceability Record	Release Date	October 21, 2014	Print Date	October 21, 2014

Traceability Matrix between URS/UI

URS/ UI	URS-06	URS-07	URS-09	URS-10	URS-11	URS-12	URS-13	URS-14	URS-15	URS-16	URS-17	URS-18	URS-19	URS-20
UI-01			✓	✓	✓	✓								
UI-02			✓											
UI-03				✓	✓									
UI-04				✓										
UI-05					✓									
UI-06							✓	✓	✓	✓				
UI-07							✓							
UI-08								✓	✓					
UI-09								✓						
UI-10									✓					
UI-11											✓	✓	✓	✓
UI-12											✓			
UI-13												✓	✓	
UI-14												✓		
UI-15													✓	
UI-16	✓													
UI-17	✓													
UI-18	✓													
UI-19		✓												
UI-20		✓												

Document Name	OEGP-Traceability Record_V.1.1.docx	Owner	NS,PW	Page	11 / 19
Document Type	Traceability Record	Release Date	October 21, 2014	Print Date	October 21, 2014

Traceability Matrix between CD-CI/SQD-CI

CD-CI/ SQD-CI	CD-CI-01	CD-CI-02	CD-CI-03	CD-CI-04	CD-CI-05
SQD-CI-01	✓				
SQD-CI-02	✓				
SQD-CI-03	✓				
SQD-CI-04	✓				
SQD-CI-05		✓			
SQD-CI-06		✓			
SQD-CI-07		✓			
SQD-CI-08		✓			
SQD-CI-09			✓		
SQD-CI-10			✓		
SQD-CI-11			✓		
SQD-CI-12			✓		
SQD-CI-13				✓	
SQD-CI-14					✓

Document Name	OEGP-Traceability Record _V.1.1.1.docx	Owner	NS,PW	Page	12 / 19
Document Type	Traceability Record	Release Date	October 21, 2014	Print Date	October 21, 2014

Traceability Matrix between CD-SV/SQD-SV

CD-SV/ SQD-SV	CD-SV-01	CD-SV-02	CD-SV-03	CD-SV-04	CD-SV-05
SQD-SV-01	✓				
SQD-SV-02	✓				
SQD-SV-03	✓				
SQD-SV-04	✓				
SQD-SV-05		✓			
SQD-SV-06		✓			
SQD-SV-07		✓			
SQD-SV-08		✓			
SQD-SV-09			✓		
SQD-SV-10			✓		
SQD-SV-11			✓		
SQD-SV-12			✓		
SQD-SV-13				✓	
SQD-SV-14					✓

Document Name	OEGP-Traceability Record _V.1.1.docx	Owner	NS,PW	Page	13 / 19
Document Type	Traceability Record	Release Date	October 21, 2014	Print Date	October 21, 2014

Traceability Matrix between CD-CI/ UTC-CI

CD-CI/ UTC-CI	CD-CI-01	CD-CI-02	CD-CI-03	CD-CI-04	CD-CI-05
UTC-CI -01	✓				
UTC-CI -02	✓				
UTC-CI -03	✓				
UTC-CI -04	✓				
UTC-CI -05		✓			
UTC-CI -06		✓			
UTC-CI -07		✓			
UTC-CI -08		✓			
UTC-CI -09		✓			
UTC-CI -10		✓			
UTC-CI -11			✓		
UTC-CI -12			✓		
UTC-CI -13			✓		
UTC-CI -14			✓		
UTC-CI -15			✓		
UTC-CI -16				✓	
UTC-CI -17					✓
UTC-CI -18					✓

Document Name	OEGP-Traceability Record _V.1.1.docx	Owner	NS,PW	Page	14 / 19
Document Type	Traceability Record	Release Date	October 21, 2014	Print Date	October 21, 2014

Traceability Matrix between CD-SV/ UTC-SV

CD-SV/ UTC-SV	CD-SV-01	CD-SV-02	CD-SV-03	CD-SV-04	CD-SV-05
UTC-SV -01	✓				
UTC-SV -02	✓				
UTC-SV -03	✓				
UTC-SV -04	✓				
UTC-SV -05	✓				
UTC-SV -06		✓			
UTC-SV -07		✓			
UTC-SV -08		✓			
UTC-SV -09		✓			
UTC-SV -10		✓			
UTC-SV -11			✓		
UTC-SV -12			✓		
UTC-SV -13			✓		
UTC-SV -14			✓		
UTC-SV -15					✓
UTC-SV -16					✓
UTC-SV -17					✓
UTC-SV -18					✓
UTC-SV -19					✓
UTC-SV -20				✓	

Document Name	OEGP-Traceability Record _V.1.1.docx	Owner	NS,PW	Page	15 / 19
Document Type	Traceability Record	Release Date	October 21, 2014	Print Date	October 21, 2014