## **Annex 2 of the Guideline for Variation**

## **Quality Changes, Active Pharmaceutical Ingredient**

- CTD 3.2.S API (or Drug Substance)
- CTD 3.2.S.2 Manufacture

	Description of Change	Conditions to be fulfilled	Documentation required	Reporting Type
8	Replacement or addition o turer of an API involving:	f a new manuf	acturing site or	manufac-
8 a 1)	API testing only	1-2, 4	1, 3-4	IN
8 a 2)		2, 4	1, 3-4	Vmin
8 b 1)	production of API starting material	3-4	No variation is such changes a as amendmer APIMF by the holde	re handled nts to the e APIMF
8 b 2)		4-5	1-2, 12	IN
8 b 3)		None	1, 2, 5, 7-8, 12, 13	Vmaj
8 c 1)	production of API intermediate	No variation is red such changes are 3–4 as amendments APIMF by the A holder		re handled nts to the e APIMF
8 c 2)		4, 6	1-2, 12	IN
8 c 3)		None	1-2, 5, 7-8, 12, 13	Vmaj
8 d 1)	production of API (APIMF	3, 7–9	1, 2, 6, 8	IN
8 d 2)	procedure)	3, 7, 9	1, 2, 6-8	Vmin
8 e 1)	production of API (full dos-	1, 9-11	1-2, 4, 8-9	IN
8 e 2)	sier)	None	1, 2, 4, 5, 7–8, 10–11, 13	Vmaj
	<ul> <li>Conditions to be fulfilled</li> <li>1 The API is non-sterile</li> <li>2 The transfer of analytical methods has been successfully undertaken</li> <li>3 The new site is supported by an APIMF that is currently accepted through the APIMF procedure and the FPP manufacturer holds a valid Letter of Access</li> <li>4 No change in the FPP manufacturer's API specifications</li> <li>5 The impurity profile of the API starting material is essentially the same as other accepted sources. The introduction of the new supplier does</li> </ul>			

De	escription of Change	Conditions to be fulfilled	Documentation required	Reporting Type
	not require the revision of rial specifications. The rou already accepted			_
6	Specifications (including in als), method of manufacturied as identical to those a new supplier does not requAPI intermediate specifical	ire and detailed Iready accepted uire the revision	route of synthesi I. The introduction	s are veri- n of the
7	No change in the FPP relea	ase and end-of-	shelf-life specifica	tions
8	No difference in impurity princluding organic, inorganic vents. The proposed API nather revision of the FPP ma	c and genotoxionanufacturer's s	impurities and repecifications do n	esidual sol-
9	For low-solubility APIs the particle size is critical (incl cant difference in particle used in the preparation of	uding low-solub size distribution	ility APIs) there is	s no signifi-
10	Specifications (including in materials), method of mar route of synthesis are veri (such situations are gener manufacturer or a new con an acceptable and similar turer)	nufacture (includ fied as identical ally limited to a ntract manufact	ding batch size) a to those already dditional sites by uring site with ev	nd detailed accepted the same idence of
11	Where materials of human the manufacturer does not is required of viral safety of Guidelines on transmissibl biological and pharmaceut EMA's Note for guidance of spongiform encephalopath nal products (www.emea.e the ICH region and associa	t use any new sor of compliance e spongiform erical products (was minimizing the ey agents via hubeuropa.eu/ema)	upplier for which with the current acephalopathies in ww.who.int/biolo e risk of transmiti man and veterina	assessment WHO relation to gicals) or ting animal ary medici-
De	ocumentation required			
1	(S.2.1) Name, address, ar ity involved in manufactur A valid testing authorisation plicable	e or testing (inc	cluding block(s) ar	nd unit(s)).
2	(S.2.2) A side-by-side comproduction of the API, intecable) at the parent and p the differences	rmediate, or AP	I starting materia	ıl (as appli-
3	(S.4.3) Copies or summar reports, which demonstrat used at the proposed testi	e equivalence o		

4 (S.4.4) Description of the batches, copies of certificates of analysis and batch analysis data (in a comparative tabular format) for at least

	De	scription of Change	Conditions to be fulfilled	Documentation	Reporting
		two (minimum pilot- scale		required API from the cur	Type rently ac-
		cepted and proposed man			rendy de
	5	Relevant sections of (S) documentation in fulfilment of requirements for full information provided in the dossier under section 3.2.S of the WHO Guidelines on submission of documentation for a multisource (generic) finished pharmaceutical product for the WHO Prequalification of Medicines Programme: quality part.7			
	6	The open part of the new and Module 1) and documenta APIMF option under section sion of documentation for tical product	tion in fulfilmen n 3.2.S of the V	t of requirements VHO <i>Guidelines or</i>	for the n submis-
	7	(P.8.2) If the quality chara way that it may impact the under stability one produc the study throughout the ately report any out of spe	e stability of the tion-scale batch currently accept ecification result	e FPP, a commitm of the FPP and to ted shelf-life and to s to MCA	ent to put continue to immedi-
	8	(S.4.1) A copy of the FPP		•	
	9	(S.2) A declaration from the route of synthesis, material tions of the API and key (uprocess of the API (if application) the API (if application) and the API (if application) are the application.	als, quality cont ultimate) interm	rol procedures an ediate in the mar	d specifica- nufacturing
	10	A discussion of the impact and/or quality of the FPP	of the new API	on the safety, eff	ficacy
	11	For low solubility APIs who ever particle size is critical is a significant difference i batch used in the biobatch pact the quality and bioave	(including low- n particle size d n, evidence that	solubility APIs) w istribution compa the differences d	here there red to the
	12 Certificates of analysis for at least one batch of API starting material or intermediate (as applicable) issued by the new supplier and by the API manufacturer. Comparative batch analysis of final API manufactured using API starting material or intermediate (as applicable) from the new source and from a previously accepted source. For an alternative source of plant-derived starting material, control of pesticide residues must be established. This can either be in the form of an attestation from the starting material supplier that no pesticides are used during the growth of the plant material, or by providing the results of pesticide screening from one batch of the starting material			and by the manufac- able) from an alterna- sticide resi- an attesta- re used a results of	
	13	An analysis of the impact the need for API stability such studies if necessary	studies and a d		
9		ange or addition of a manupted site of API manufactu	_	k or unit at a curr	ently ac-
9 a			1-5	No variation is such changes a	

	Description of Change	Conditions to be fulfilled	Documentation required	Reporting Type
		as amendments to the APIMF by the APIMF hold		
9 b		1, 3-5	1-4	IN
	<ol> <li>Conditions to be fulfilled</li> <li>The API is non-sterile</li> <li>The API manufacturing block or unit is currently accepted through the APIMF procedure</li> <li>The same quality system covers currently accepted and proposed units or blocks</li> <li>For low-solubility APIs, there is no change in the polymorphic form and whenever particle size is critical (including low solubility APIs) there is no significant change to the particle size distribution compared to the API batch used in the preparation of the biobatch</li> <li>No change in the route of synthesis, quality control procedures and specifications of the API and key (ultimate) intermediate in the manufacturing process of the API (if applicable). Minor changes in the equip-</li> </ol>			
	ment are acceptable			
	<ol> <li>(S.2) A declaration from the supplier of the FPP that the route of synthesis, quality control procedures and specifications of the API and key (ultimate) intermediate in the manufacturing process of the API (if applicable) are the same as those already accepted</li> <li>(S.2.1) Name, address, and responsibility of the proposed production site or facility involved in manufacturing and/or testing (including block(s) and unit(s)). A valid manufacturing and/or testing authorisation and a certificate of GMP compliance, if available</li> <li>(S.4.4) Description of the batches, copies of certificates of analysis and batch analysis data (in a comparative tabular format) for at least two (minimum pilot-scale) batches of the API from the currently accepted and proposed units or blocks</li> <li>(S.2.2) A summary of differences between manufacture and control of the API at the currently accepted and proposed units or blocks, if applicable</li> </ol>			
10	Change in the manufacturi			T
10 a		1-3, 9	1-2, 8	AN
10 b 1)		1-2, 4, 6-9	3-4, 11-12	IN
10 b 2)		1-2, 4, 6-8, 10	3-4, 11-12	Vmin
10 c		1-2, 4-7	3-4, 11-12	Vmin
10 d		None	2-14	Vmaj
	Conditions to be fulfilled  1 No change in the physical state (e.g. crystalline, amorphous) of the API			

De	scription of Change	Conditions to be fulfilled	Documentation required	Reporting Type
2	For low solubility APIs, the whenever particle size is cono significant change in the of the API batch used in the apic size.	ritical (including e particle size d	low solubility AP istribution compa	Is) there is
3	The API manufacturing site procedure	e is currently ac	cepted through th	ne APIMF
4	Where materials of human or animal origin are used in the process, the manufacturer does not use any new process for which assessment of viral safety data or TSE risk assessment is required			
5	No change in the route of same) and there are no no the process	•		
6	No change in qualitative a cochemical properties of the	•	impurity profile o	r in physi-
7	The change does not affect	t the sterilizatio	n procedures of a	sterile API
8	The change involves only	•		
9	The change does not requ diate or API specifications		_	
10	The change does not requ	ire revision of th	ne API specification	ns
Do	cumentation required			
1	A copy of the APIMF amen	dment acceptar	ice letter	
2	(P.8.2) If the quality chara that may impact the stabil stability one production-so study throughout the curre report any out of specifica	ity of the FPP, a cale batch of the ently accepted s	commitment to FPP and to conti helf-life and to in	put under nue the
3	(S.2.2) A side-by-side con process	nparison of the o	current process a	nd the new
4	(S.2.2) A flow diagram of brief narrative description			
5	(S.2.3) Information on the raw materials, starting main the manufacture of the	iterials, solvents proposed API, w	s, reagents, cataly where applicable	ysts) used
6	(S.2.3) Either a TSE CEP f plicable, documented evid that carries a risk of TSE f tent authority and shown on transmissible spongifor	ence that the sp nas previously be to comply with t om encephalopat	pecific source of the een assessed by the she current WHO of thies in relation to	he material the compe- guidelines o biological
	and pharmaceutical produ for guidance on minimizing encephalopathy agents via (www.emea.europa.eu/em gion and associated count	g the risk of trar a human and ver na) or equivalen	nsmitting animal s terinary medicina	spongiform I products
7	(S.2.4) Information on cor where applicable	ntrols of critical	steps and interme	ediates,
8	(S.2.5) Evidence of proces	s validation and	l/or evaluation stu	udies for

	Description of Change	Conditions to be fulfilled	Documentation required	Reporting Type	
	sterilization, if applicable  9 (S.3.1) Evidence for elucidation of structure, where applicable  10 (S.3.2) Information on impurities  11 (S.4.1) A copy of currently accepted specifications of API (and starting material and intermediate, if applicable)  12 (S.4.4) Description of the batches, certificates of analysis or batch analysis report, and summary of results, in a comparative tabular format, for at least two batches (minimum pilot-scale) manufactured according to the current and proposed processes  13 (S.7.1) Results of two batches of at least pilot-scale with a minimum of three months of accelerated (and intermediate as appropriate) and three months of long-term testing of the proposed API  14 For low-solubility APIs where the polymorphic form has changed or whenever particle size is critical (including low-solubility APIs) where there is dissimilar particle size distribution compared to the batch used in the biobatch, evidence that the differences do not impact the quality and bioavailability of the FPP				
11	Change in the in-process to facture of the API:	ests or limits a	pplied during th	ne manu-	
11 a	any change in the manufac- turing process controls	1	No variation is required; such changes are handled as amendments to the APIMF by the APIMF holder		
11 b	tightening of in process limits	2-4	1	AN	
11 c	addition of a new in-process test and limit	2-5	1-5	AN	
11 d	addition or replacement of an in-process test as a re- sult of a safety or quality is- sue	None	1-5, 7, 8-10	Vmin	
11 e 1)	deletion of an in-process	2, 6-7	1-3, 6	AN	
11 e 2)	test	None	1-3, 5, 7-10	Vmaj	
11 f	relaxation of the in-process test limits	None	1-3, 5, 7-10	Vmaj	
	Conditions to be fulfilled				
	<ol> <li>API manufacturing site is currently accepted through the APIMF procedure</li> <li>The change is not necessitated by unexpected events arising during manufacture e.g. a new unqualified impurity or a change in total impurity limits</li> <li>The change is within the range of currently accepted limits</li> <li>The analytical procedure remains the same, or changes to the analytical procedure are minor</li> </ol>				

	Description of Change	Conditions to be fulfilled	Documentation required	Reporting Type	
	<ul> <li>5 Any new analytical procedure does not concern a novel non-standard technique or a standard technique used in a novel way</li> <li>6 The affected parameter is non-significant</li> <li>7 The change does not affect the sterilisation procedures of a sterile API</li> </ul>				
	Documentation required				
	1 A comparison of the currently accepted and the proposed in-process tests				
	<ul> <li>2 (S.2.2) Flow diagram of the proposed synthetic process(es) and a brief narrative description of the proposed manufacturing process(es)</li> <li>3 (S.2.4) Information on the controls performed at critical steps of the manufacturing process and on intermediates of the proposed API</li> <li>4 Details of any new non-pharmacopoeia analytical method and validation data where relevant</li> </ul>				
	<ul><li>5 Justification for the new in</li><li>6 Justification and/or risk-as non-significant</li></ul>	•	-	meter is	
	<ul> <li>7 (S.2.5) Evidence of process validation and/or evaluation studies for sterilisation, where applicable</li> <li>8 (S.3.2) Information on impurities, if applicable</li> <li>9 (S.4.1) Copy of currently accepted specifications of API (and intermediates, if applicable)</li> <li>10 (S.4.4) Description of the batches, certificates of analysis or batch analysis report and summary of results, in a comparative tabular format, for at least two batches (minimum pilot-scale) for all specification parameters</li> </ul>				
12	Change in batch size of the	API or interm	nediate involvin	g:	
12 a	up to 10-fold compared to the currently accepted batch size	1-2, 4, 6	1, 3-4	AN	
12 b 1)	downscaling	1-4	1, 3-4	AN	
12 b 2)		1-3	1 -4	IN	
12 c	any change in scale (APIMF procedure)	5	1-2, 4-5	AN	
12 d	more than 10-fold increase compared to the currently accepted batch size	1-2, 4, 6	1, 3-4	Vmin	
	<ul> <li>Conditions to be fulfilled</li> <li>1 No changes to the manufacturing process other than those necessitated by changes in scale (e.g. use of a different size of equipment)</li> <li>2 The change does not affect the reproducibility of the process</li> <li>3 The change is not necessitated by unexpected events arising during manufacture or due to stability concerns</li> </ul>				
	4 The change does not conce	m a sterne API			

	Description of Change	Conditions to be fulfilled	Documentation required	Reporting Type
	<ul><li>5 The API manufacturing site through the APIMF procedu</li><li>6 The proposed batch size in cepted batch size, or the batch size.</li></ul>	and batch size ire crease is relative	is currently accep	oted ginally ac-
	major or minor variation			
	Documentation required  1 (S.2.5) Where applicable, e tion studies for sterilisation	•		
	<ul> <li>2 (S.4.1) Copy of the currently accepted specifications of the API (and of the intermediate, if applicable)</li> <li>3 (S.4.4) Batch analysis data (in tabular format) issued by the FPP manufacturer for a minimum of two batches each of the currently accepted batch size and the proposed batch size</li> </ul>			e FPP man-
13	4 A copy of the APIMF amend Change or addition of a ma accepted site of API manual	nufacturing b	lock or unit at a	currently
13 a	any change  1  No variation is required; such changes are handled as amendments to the APIMF by the APIMF holder.			re handled its to the
13 b	tightening of the specifica- tion limits	2-4	1-3	AN
13 c	minor change to an analytical procedure	5-7	2-3	AN
13 d	addition of a new specification parameter and a corresponding analytical procedure where necessary	2, 7-9	1-3	AN
13 e	deletion of a specification parameter or deletion of an analytical procedure	2, 10	1-4	AN
13 f	addition or replacement of a specification parameter as a result of a safety or quality issue	None	1-3, 5	Vmin
13 g	relaxation of the currently accepted specification limits for solvents, reagents, catalysts and raw Materials	4, 7, 9–10	1, 3-4	IN
13 h	relaxation of the currently accepted specification limits for API starting materials and Intermediates	None	1-3, 5	Vmaj

	Description of Change	Conditions to be fulfilled	Documentation required	Reporting Type	
	<ul> <li>Conditions to be fulfilled</li> <li>1 API manufacturing site is currently accepted through the APIMF procedure</li> <li>2 The change is not necessitated by failure to meet specifications result-</li> </ul>				
	ing from unexpected events arising during manufacture, or because of stability concerns				
	<ul><li>3 Any change is within the r</li><li>4 The analytical procedure r</li></ul>	emains the sam	ie	L	
	The method of analysis is based on the same analytical technique or principle (e.g. changes to the analytical procedure are within allowable adjustments, to column length and other parameters, but do not include variations beyond the acceptable ranges or a different type of column and method)				
	6 Appropriate validation students with the relevant guideline cedure is at least equivale	es and show tha	t the updated and	alytical pro-	
	<ul><li>No change to the total imp</li><li>Any new analytical proced technique or a standard te</li></ul>	ure does not co	ncern a novel nor		
	<ul><li>9 The change does not conc</li><li>10 The affected parameter is procedure has been previous</li></ul>	non-significant	• •	analytical	
	Documentation required				
	1 Comparative table of currently accepted and proposed specifications 2 (S.2.3) Information on the quality and controls of the materials (e.g. raw materials, starting materials, solvents, reagents, catalysts) used in the manufacture of the proposed API, where applicable				
	<ul> <li>3 (S.2.4) Information on inte</li> <li>4 Justification and/or risk ass significant</li> <li>5 (S.3.2) Information on imp</li> </ul>	essment showir	ng that the param	eter is non-	
3.2.S.4 Con	trol of the API by the API man	<u> </u>	p p · · · · · · · ·		
14	Changes to the test parameters, acceptance criteria, or analytical procedures of the API manufacturer that do not require a change to the FPP manufacturer's API specifications involving:				
14 a	API supported through the APIMF procedure	1-2	No variation is required; such changes are handled as amendments to the as- sociated APIMF.		
14 b	API not supported through the APIMF procedure	2	1-4	IN	
	Conditions to be fulfilled				
	1 The revised test parameters, acceptance criteria, or analytical procedures have been submitted as amendments to the associated APIMF				

	Description of Change	Conditions to		Reporting	
	and accepted	be fulfilled	required	Туре	
	and accepted  2 The API manufacturer has provided the relevant documentation to the FPP manufacturer. The FPP manufacturer has considered the API manufacturer's revisions and determined that no consequential revisions to the FPP manufacturer's API test parameters, acceptance criteria, or analytical procedures are required to ensure that adequate control of the API is maintained				
	Documentation required				
	1 (S.4.1) Copy of the current signed by the API manufac		API specifications	dated and	
	2 (S.4.2) Copies or summarion procedures are used	es of analytical ¡	procedures, if new	v analytical	
	3 (S.4.3) Copies or summarie analytical procedures, if ap		reports for new o	r revised	
	4 Justification as to why the er's specifications	change does no	t affect the FPP m	anufactur-	
3.2.S.4 Con	trol of the API by the FPP man	ufacturer			
15	Change to the test parame specifications of the FPP m	-		the API	
15 a	updating a test parameter or acceptance criterion controlled in compliance with an officially recognised pharmacopoeial monograph as a result of an update to this monograph to which the API is controlled.	11	1-5	AN	
15 b 1)	deletion of a test parameter	1-2	1, 6	AN	
15 b 2)		10	1, 6, 8	IN	
15 b 3)		10	1, 6, 8	Vmaj	
15 c 1)	addition of a test parameter	1, 4-8	1-6	AN	
15 c 2)		1, 5-6, 10	1-6, 8	IN	
15 c 3)		1, 5-6	1-6	Vmin	
15 c 4)		None	1-7	Vmaj	
15 d 1)	replacement of a test pa-	1, 5-8	1-6	IN	
15 d 2)	rameter	5, 7, 10	1-6, 8	Vmin	
15 d 3)		None	1-7	Vmaj	
15 e	tightening of an acceptance criterion	1, 3, 9	1, 6	AN	
15 f 1)	relaxation of an acceptance	1, 5-9	1, 6	IN	
15 f 2)	criterion	5, 7, 10	1, 6, 8	Vmin	

	Description of Change	Conditions to be fulfilled	Documentation required	Reporting Type	
15 f 3)		None	1, 6-7	Vmaj	
	Conditions to be fulfilled		=, 0 .		
	1 The change is not necessulting from unexpected cause of stability concerns				
	to the remaining tests	The deleted test has been demonstrated to be redundant with respect to the remaining tests  The change is within the range of currently accepted acceptance criteria			
	_				
	4 Any new analytical proc technique or a standard			n-standard	
	5 For insoluble APIs there is no change in the polymorphic form and whenever particle size is critical (including low-solubility APIs) there no change in particle size distribution acceptance criteria				
	6 No additional impurity found over the ICH identification threshold				
	7 The change does not co	•	_		
	8 The change does not in			urity	
	9 The associated analytical	•			
	10 The change has resulted				
	specifications and is acc 11 No change is required in	•			
	<u> </u>		snen-me specifica	LIUIIS	
	Documentation required		sations (of the EDE	manufac	
	1 (S.4.1) A copy of the pro- turer) dated and signed ble of currently accepted change has resulted fron cations, a copy of the AP dated and signed by autl currently accepted and p	by authorised personant proposed spension to the I specifications (or norised personnel	sonnel and a compecifications. In add API manufactured the API manufactared and a comparative	parative ta- dition, if the r's specifi- cturer)	
	2 (S.4.2) Copies or summa procedures are used	aries of analytical p	procedures, if new	analytical	
	3 (S.4.3) Copies or summa by the FPP manufacturer		· · · · · · · · · · · · · · · · · · ·		
	4 (S.4.3) Where an in-hou copoeial standard is clair the in-house and pharma	med, results of an	equivalence study	•	
	5 (S.4.4) Description of the analysis report, and sum one batch if new tests ar	mary of results in	tabular format, fo	or at least	
	6 (S.4.5) Justification of the rameters, acceptance cri		• -	test pa-	
1	7 (P.2) Where changes have				

soluble API or wherever particle size is critical, evidence is provided that the changes do not affect the in vitro release properties and bioavailability of the FPP. In general, it is sufficient to provide multipoint

	Description of Change	Conditions to be fulfilled	Documentation required	Reporting Type	
	comparative dissolution profiles (in three media covering the physiological range (pH 1.2 or (0.1N HCl), 4.5 and 6.8) without surfactant) for one batch of FPP manufactured using API that meets the proposed criteria; one batch of FPP manufactured using API that meets the currently accepted criteria; and data on the FPP batch used in the marketing authorisation (registration) bioequivalence study. However, if the routine dissolution medium contains a surfactant, the MAH should contact MCA for advice. For changes to the polymorph of an insoluble API the MAH should contact MCA for advice before embarking upon any investigation  8 Copy of the APIMF amendment acceptance letter				
16	Change to the analytical present the property of the control of th		d to control the	API by the	
16 a	change in an analytical procedure as a result of a revision to the officially recognised pharmacopeial monograph to which the API is controlled	None	1-3	AN	
16 b	change from a currently accepted in-house analytical procedure to an analytical procedure in an officially recognised pharmacopoeia or from the analytical procedure in one officially recognised pharmacopoeia to an analytical procedure in another official recognised Pharmacopoeia	None	1-4	IN	
16 c 1)	addition of an analytical	1-3	1-3	AN	
16 c 2)	procedure	3, 8	1-3, 5	AN	
16 c 3)		8	1-3, 5	Vmin	
16 c 4)		None	1-3	Vmaj	
16 d 1)	modification or replacement	1-6	1-4	AN	
16 d 2)	of an analytical procedure	2-3, 5-6, 8	1-5	AN	
16 d 3)		1-3, 5-6	1-4	Vmin	
16 d 4)		5-6, 8	1-5	Vmin	
16 d 5)		None	1-4	Vmaj	
16 e 1)	deletion of an analytical procedure	6–7	1, 6	AN	
16 e 2)	procedure	6, 8	1, 5, 6	IN	
16 e 3)		None	1, 6	Vmaj	

	Description of Change	Conditions to be fulfilled	Documentation required	Reporting Type	
	Conditions to be fulfilled				
	1 Any new analytical procedure does not concern a novel, non-standard				
	technique or a standard technique used in a novel way				
	2 The change is not necessitated by failure to meet specifications result-				
	ing from unexpected events arising during manufacture, or because of stability concerns				
	3 No new impurities have been detected as a result of the use of the new				
	analytical method				
	4 The method of analysis is based on the same analytical technique or principle (e.g. changes to the analytical procedure are within allowable				
	adjustments to column length and other parameters, but do not include variations beyond the acceptable ranges or a different type of column				
	and method), and no new impurities are detected				
	5 Comparative studies are available demonstrating that the proposed an- alytical procedure is at least equivalent to the currently accepted ana-				
	lytical procedure				
	6 The change does not concern sterility testing				
	7 The deleted analytical procedure is an alternative method and is equiv-				
	alent to a currently accepte 8 The new or modified analyt		dentical to that us	ed by the	
	API manufacturer and has l			•	
	the associated APIMF				
	Documentation required				
	<ol> <li>(S.4.1) Copy of the proposed API specifications dated and signed by authorized personnel and a comparative table of currently accepted and proposed specifications</li> <li>(S.4.2) Copies or summaries of analytical procedures if new or significantly modified analytical procedures are used</li> </ol>				
	3 (S.4.3) Copies or summaries of validation or verification reports issued				
	by the FPP manufacturer if new or significantly modified analytical procedures are used				
	4 (S.4.4) Comparative analytical results demonstrating that the proposed				
	analytical procedures are at least equivalent to the accepted analytical				
	procedures				
	5 A copy of the APIMF acceptance letter 6 (\$ 4.5) Justification for the deletion of the analytical procedure, with				
	6 (S.4.5) Justification for the deletion of the analytical procedure, with supporting data				
3.2.S.6 Container Closure System					
17	Change or addition of a manufacturing block or unit at a currently accepted site of API manufacture				
17 a	change in the immediate	3, 4	1-2, 4	AN	
17 b	packaging (primary and	1-2, 4	2-3	IN	
17 c	components) for storage	4	1-3	Vmin	

	Description of Change	Conditions to be fulfilled	Documentation required	Reporting Type
	Conditions to be fulfilled  1 Results demonstrate that the proposed primary packaging type is at least equivalent to the currently accepted primary packaging type with respect to its relevant properties (e.g. including results of transportation or interaction studies, and moisture permeability among others)  2 The change does not concern a sterile API  3 The change has previously been accepted through the APIMF procedure  4 The change is not the result of stability issues			
	<ol> <li>Documentation required</li> <li>(S.2.5) Evidence of process validation and/or evaluation studies for sterilisation if different from the current process</li> <li>(S.6) Information on the proposed primary packaging (e.g., description and specifications) and data in fulfilment of condition 1.</li> <li>(S.7.1) Results of (or a commitment to study in the case of demonstrated equivalent or more protective packaging) a minimum of 3 months of accelerated (and intermediate, as appropriate) and 3 months of long-term testing of the API in the proposed primary packaging type</li> <li>A copy of the APIMF amendment acceptance letter</li> </ol>			
18	Change in the specifications of the immediate packaging for the storage and shipment of the API involving:			
18 a	tightening of specification limits	1-2	1	AN
18 b	addition of a test parameter	2-3	1-3	AN
18 c	deletion of a non-critical parameter	2	1, 4	AN
18 d	any change (APIMF procedure)	4	No variation is required; such changes are handled as amendments to the as- sociated APIMF	
	<ol> <li>Conditions to be fulfilled</li> <li>The change is within the range of currently accepted limits</li> <li>The change is not necessitated by failure to meet specifications resulting from unexpected events arising during manufacture, or because of stability concerns</li> <li>Any new analytical procedure does not concern a novel, non-standard technique or a standard technique used in a novel way</li> <li>The change has previously been accepted through the APIMF procedure</li> <li>Documentation required</li> <li>(S.4.5) Comparative table of currently accepted and proposed specifications, justification of the proposed specifications</li> <li>(S.4.2) Details of method and summary of validation of new analytical procedure</li> </ol>			

	Description of Change	Conditions to be fulfilled	Documentation required	Reporting Type	
	3 (S.6) Certificate of analysis for one batch				
	4 Justification to demonstrate that the parameter is not critical				
19	Change to an analytical protection the API involving:	Change to an analytical procedure on the immediate packaging of the API involving:			
19 a	minor change to an analytical procedure	1-3	1.	AN	
19 b	other changes to an analytical procedure including addition or replacement of an analytical procedure	2-4	1	AN	
19 c	deletion of an analytical procedure	5	2	AN	
19 d	any change (APIMF procedure)	6	No variation is required; such changes are handled as amendments to the as- sociated APIMF		
	<ul> <li>adjustments to column length and other parameters, but do not include variations beyond the acceptable ranges or a different type of column and method)</li> <li>2 Appropriate (re)validation studies have been performed in accordance with the relevant guidelines</li> <li>3 comparative studies indicate the new analytical procedure to be at least equivalent to the currently accepted procedure</li> <li>4 Any new analytical procedure does not concern a novel, non-standard technique or a standard technique used in a novel way</li> <li>5 The deleted analytical procedure is an alternative method and is equivalent to a currently accepted method</li> <li>6 The change has previously been accepted through the APIMF procedure</li> </ul>				
3.2.S.7 S	Documentation required  1 (S.6) Comparative validation results demonstrating that the currently accepted and proposed procedures are at least equivalent  2 Justification for deletion of the analytical procedure  bility				
20	Change in the retest period	d or shelf-life (	of the API involv	/ing:	
20 a	any change (APIMF procedure)	4	4	IN	
20 b	reduction	3	1-2	IN	
20 c	extension	1-2	1-3	Vmin	

	Description of Change	Conditions to be fulfilled	Documentation required	Reporting Type
	Conditions to be fulfilled  1 No change to the primary packaging in direct contact with the API or to the recommended condition of storage  2 Stability data were generated in accordance with the currently accepted stability protocol  3 The change is not necessitated by unexpected events arising during manufacture or because of stability concerns  4 The revised retest period has previously been accepted through the APIMF procedure			
	<ul> <li>Documentation required</li> <li>1 (S.7.1) Proposed retest period or shelf-life, summary of stability testing according to currently accepted protocol and test results</li> <li>2 (S.7.2) Updated post-acceptance stability protocol and stability commitment and justification of change, when applicable</li> <li>3 (S.7.3) Stability data to support the change</li> <li>4 A copy of the APIMF acceptance letter</li> </ul>			
21	Change in the retest period or shelf-life of the API involving:			
21 a	any change in storage conditions (APIMF procedure)	1	1	IN
21 b	any change in storage conditions	2	2	Vmin
	<ul> <li>Conditions to be fulfilled</li> <li>1 The revised storage conditions have previously been accepted through the APIMF procedure</li> <li>2 The change is not necessitated by failure to meet specifications resulting from unexpected events arising during manufacture, or because of stability concerns</li> </ul>			
	<ul> <li>Documentation required</li> <li>1 A copy of the APIMF acceptance letter</li> <li>2 (S.7.1) Stability and/or compatibility test results to support the change to the storage conditions</li> </ul>			